



**VT Software Research and Development Services Pvt Ltd**

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## 1. About Us

VT Software is a professional IT solutions provider based in Chennai, India. Our expertise lies in providing technology solutions for business problems. We leverage a unique combination of industry experience, content depth and domain expertise to deliver highly focused and best-of-breed business, consulting and technology solutions to clients.

Our approach is to provide end-to-end IT solutions by leveraging our in-depth technical expertise to enhance the business of our customers. All our **resources, industry intelligence** and **systems expertise** are placed in the service of the customer whose needs we are committed to serve.

VT Software provides enterprise solutions which include Application development, Web solutions, Internet marketing and a whole gamut of IT solutions and products to clients.

We firmly believe in delivering customer-focused solutions through continuous innovation. We collaborate and partner with our customers and facilitate value addition across multiple levels through streamlining business processes.

We offer cost-effective solutions, domain knowledge and technical expertise to our customers. We provide them with the best of both worlds: offshore development along with a local consulting presence, thereby integrating the customer's business strategy with reliable on-time execution.

### 1.1. Our Vision

To make use of the technology to common man through our cost effective Innovative solutions.

### 1.2. Our Mission

To provide quality services to our clients in their respective business spectrum. We want to inculcate high responsive attitude towards the immediate needs of our clients and surpass their expectations and deliver the best in the IT Industry

### 1.3. Strengths

- Eyeing on the Quality solutions
- Customer first: Total Commitment to our customers
- To ensure that we satisfy our customer's objectives and their expectation
- Transparency and Honesty: Transparency in our all processes and in its all the levels
- Innovation: To be a leader and always strive for new advances
- Pursuit of Excellence: A commitment to constantly improve ourselves, our resources, our services and to deliver not just better but the best.



## 2. Services

### 2.1. Application Development

VT Software's Application Development Services help you balance costs, boost service levels and improve productivity through robust management of flexible, high-performance, business-critical applications. Leveraging the best-of-technologies and practices, we ensure that your business applications are developed, maintained and managed within optimal costs and agreeable time-frames to provide you secure and risk-free business environments.

We approach Application Development in a mature, proactive way. We believe that Application outsourcing can reap benefits only if risks are minimized and balanced by off shoring-incentives like reduced costs, unflinching performance ratios and consistent quality levels.

Our development model is a meeting of the conventional and the current. We marry conventional practices with agility to provide faster, enhanced solutions to client. Without cutting corners or compromising quality, we deliver applications within shorter time-frames and agreed-upon deadlines.

#### Service Highlights

- Global Delivery Model (GDM)
- Well-structured development metrics
- Customized application development
- Increased uptimes & consistent performance
- Adherence to international quality standards
- Proper Risk Management model & rigid QA Process
- Reduced time-frames, sliced-down costs

We use various development methodologies like Waterfall, SCRUM, Agile, and Iterative to meet your requirements. Learn more about our methodologies [here](#). We have well defined Project Management processes to help customers interact with our team effectively. Most of our Project Managers are PMI certified professionals who can put their best to deliver the right solutions.

#### 2.1.1. Web Application

VT Software designs and develops Web Applications that are business-critical and help you sail smooth through challenging and constantly-evolving technological changes. Our web applications tone-down IT complexity, facilitate seamless work flow and synchronize business operations, making them easy to manage and monitor.

Our Web Applications are end-products of in-depth analysis and understanding of client's requirements. Configured to suit client's IT requirements, our web applications help enterprises steer clear of corporate stigmata like processing-delays, information-thefts and problems in data access or recovery. With exclusive business-enhancing features, our applications come with cross-platform compatibility (i.e., Windows, Mac, Linux, etc.) and can be easily integrated into other web procedures.



## Service Highlights

VT Software delivers web applications that can keep you on the upbeat of the IT rhythm by hampering downtimes and accelerating productivity. We ensure that you are one-up on competition through effective applications that are critical to reduce time-to-market periods and slice-down development costs. VT Software has developed simple to advanced web applications and web RIAs for clients - from online presentation tools, data management to computer-aided design optimizers, eCommerce applications etc.

### 2.1.2. Enterprise Application

VT Software's Enterprise Application solutions address a diverse range of critical enterprise issues that enable enterprises to decompose business complexity, alleviate organizational stress and instead, concentrate on strategy and growth.

Our Enterprise Application services facilitate effective development and integration of underlying, growth-enhancing applications into complex organizational architectures. We address real-time integration demands of enterprises which require integration of entire enterprise assets like internal enterprise environment, business functions and staff operations with extended enterprise eco-system and infrastructure.

We help enterprises streamline standardize and manage business processes by automating critical enterprise operations. Our Enterprise Resource Planning (ERP) solutions allow enterprises to enjoy real-time information sharing and access mission-critical data through a single platform. We provide the strategic roadmap to enterprises by integrating and automating key functions and transaction processes.

#### Service Highlights:

VT Software's Enterprise Application solutions menu includes services like Consulting, Product Development, Integration, Implementation, Upgrade and Support. Our methodology comprises of initial audit of client's environment, technological assessment of the system's potential/caliber, and then, development/ integration/ implementation of application followed by post-implementation measures like risk management, performance and consistency analysis.

### 2.1.3. Desktop Application

VT Software leverages the best-of-technologies to develop rich, user-friendly and effective Desktop Applications that work offline and run off the web browser. We help you spruce-up your business environment through rich, easy-to-use, easy-to-access, new-generation Rich Desktop Applications (RDAs) and Rich Internet Desktop Applications (RIDAs). Our desktop applications facilitate instant content synchronization, quick file system access and ready management of downloadable content even while working offline.

Applying our industry expertise and technical experience, we develop Desktop Applications that tone-down the complexity of your business processes, improve your performance and accelerate your business productivity. By making complicated and tedious operations simpler, our Desktop Applications help you synchronize important processes and streamline your IT operations in a proper, growth-enhancing manner.



Keeping up with the GDM, our “webified” desktop applications are on par with Rich Internet Applications and allow you to enjoy the multifarious features and facilities offered by RIAs.

### **Service Highlights**

We design and build Desktop applications that are strategically-effective, risk-repellant and easy-to-maintain. Our applications facilitate enhancements that are modular to upgrades or changes and hold proof against data thefts or technical mishaps. Our Desktop Applications development spans several platforms and languages.

#### **2.1.4. Flex Application**

VT Software offers customized, flexible Rich Internet Applications (RIAs) using Flex technology. Deploying the cross-platform compatibility and high performance potential of Adobe Flex, we design and build web pages and applications that deliver rich and enhanced user experience.

Flex Development signifies a phenomenal shift in the way people approach web applications. With Adobe Flex, web applications have become smarter, more expressive and interactive. Flex opens a whole new world of computing - it allows users to create applications that facilitate easy data processing, cut-down development times and increase connectivity. Flex’s ‘no-refresh’ data transmission increases user-interactivity and reduces bandwidth usage, thereby, creating seamless communication channel between you and your users.

### **Service Highlights**

VT Software exerts Flex technology to deliver interactive flex solutions that allow you to enjoy seamless business computing. Leveraging the best and latest of Flex technology, we help you organize and ameliorate your business processes through extremely user-friendly, customizable applications.

Our Flex solutions are tailored to suit firms that require quick data processing and seamless connectivity. Using Flex, we develop business-to-business applications, statistics management solutions, interactive user platforms, eCommerce and shopping cart solutions and custom standalone applications that can increase the tempo of your productivity and ensure successful business transactions.

#### **2.1.5. Widget Development**

Widgets are crucial for creating rich user experience and seamless communicative channels. Quite essential to achieving customer satisfaction and effective connectivity, Widget Development has become a major trend in the web ecosphere.

VT Software’s Widget Development solutions offer effective and expressive GUI, Web and Mobile widgets. Our widget solutions help you achieve competitive edge and launch your brand identity on the web. Deploying our technological expertise and widget programming skills, we design and develop dynamic and highly interactive widgets tailored to suit your needs.

### **Service Highlights**

VT Software excels in creating dynamic web widgets using PHP and .NET technologies. We develop widgets for games, media and other forms of gadgets. With the objective of creating seamless digital interactivity among users, we design widgets for social



communities, networks, portals and other community sites. We develop interesting and interactive widgets for Facebook like Top Friends, iLike, Sticky Notes, SuperWall etc. Abiding by all the terms of Facebook and other social communities, our widgets perfectly bring alive the concept of 'fluid web' or seamless interactivity.

#### **2.1.6. Maintenance and Enhancement**

VT Software's Application Maintenance services help you unlock the potential of your existing applications and extract the best out of them. Our solutions address key issues like reducing Total Cost Ownership, slicing-down application downtimes and enhancing legacy systems without compromising on productivity or business flow. We have rich and diverse applications intelligence which ensures that your applications are maintained properly through offshore-ability analysis and maintainability-analysis.

VT Software's Application Enhancement services address application modernization and upgrade issues to boost business processes which are otherwise tedious or laborious to monitor and manage. We believe that organizations need a regular refurbishing of applications to speed-up business growth and productivity. We enable clients to manage and upgrade such legacy systems, multiple technology platforms, high-maintenance costs, unsupportive systems, and integration problems through our flexible and valuable application maintenance and enhancement deliverables. Circumventing thefts/threats, minimizing disruptions and mitigating risks, we help clients enhance and maintain their legacy systems and enterprise applications at reduced costs within quick-turn-around-times.

We follow a metrics-driven approach and deliver solutions that are on par with international standards. Our advantage in Application Maintenance and Enhancement services:

- Metrics-driven approach
- Domain-intensive technology & GDM
- Flexible, reliable and enhanced applications
- Mitigation of risks, disruptions and threats
- Faster time-to-market periods
- Improved productivity at sustainable costs

#### **2.1.7. Application Migration**

VT Software's Application Migration solutions are tailored to help organizations deal with their out-dated technologies. We address issues wherein applications span multiple databases, languages and different systems and offer migration solutions that allow seamless migration of applications from one environment to another. Through our migration solutions, we enable organizations to manage and structure their IT architecture and thereby, minimize their IT investments and enhance business performance.

Our migration solutions contain Database migration, Language migration, and OS migration. We provide pre and post migration support and ensure that the migration process is a smooth transition from one platform to another without any undue performance lapse or process stagnation. Combining our systems knowledge with migration expertise, we utilize the best-of-breed technology to migrate mainframe applications to distributed client/server or web-enabled systems.



We adopt a solid and structured Risk Management Model to minimize risks and circumvent data loss or threats. The highlights of our service include:

- Database Migration
- Language Migration
- Operating System Migration
- Code Restructuring
- Performance Optimization
- Risk Management
- Pre and Post Migration support
- Reduced time-frames, sliced-down costs

## 2.2. Web Development

The quantum leap in the number of web users has created numerous competition-bottlenecks for enterprises. To combat and overcome technological lapses and operational havocs, organizations need high-quality, customized web solutions.

VT Software provides usability-focused, risk-free website development services that help you standardize your business activities and stay ahead of competition. Exploring the latest paradigms in the web landscape, we articulate your web development requirements in user-centric designs backed by strong technological architectures.

Our websites provide alluring, effective and functional rendition of your services. Adopting the Web 2.0 model of computing, we help organizations with solutions that allow users to 'communicate, collaborate, contribute and participate'. Some of our service highlights include:

- Content Management Solutions (CMS)
- E-commerce solutions - Shopping Carts & Payment Gateways
- Open Source solutions
- OS Commerce Customization
- Portal Development
- Web CRM solutions
- Usability-focused design & development.

### 2.2.1. Web 2.0

Web 2.0 marks a proliferation of interactivity and interconnectivity in the world of computing. It signifies the phenomenal change that gradually overtook the 'web-as-an-information-source' Web 1.0 to 'web-as-participation-platform' Web 2.0.

VT Software offers robust, out-of-the-box Web 2.0 solutions that can catapult your business and reach out to your target customers making your site an epicenter of customer activity. Exerting the best and latest of Web 2.0, we deliver impressive web solutions that comprise of brand-new applications, innovative interfaces, participation platforms and attractive sites designed with big clear buttons, lesser columns and solid screen real-estate headers.



## Service Highlights

Proactive and futuristic, VT Software's Web 2.0 solutions can change the face of your business and launch yourself on the upbeat of IT world. We understand that Web 2.0 is all about rich participation, information sharing and user-friendly interfaces. CSS, Folksonomies, XHTML markups, weblogs, syndication of content through RSS or Atom feeds, development of participative platforms such as wikis, forums, video sharing sites; and rich web applications/interfaces that encourage social computing - our solutions conform to all the latest Web 2.0 standards.

### 2.2.2. E-commerce Solutions

Today's challenging business scenarios demand flexible, agile applications to meet new imperatives and accelerate core business processes. With eBusiness emerging as a major industry, businesses need 'happening' eCommerce solutions to keep up with the competition and establish brand equity in today's clustered web space. Incorporating a broad range of technologies, VT Software delivers measurable value through effective, high-performance eCommerce solutions. We help you reduce the strain on your eBusiness through diverse, scalable and customized eCommerce applications. Our eCommerce solutions

- Accommodate B2C and B2B business models
- Maximize performance, scalability & adaptability
- Facilitate rich customer experience
- Allow easy merchandizing, marketing, catalog and order management etc
- Enables seamless integration of channels, processes and systems
- heighten performance levels and speed up transaction processes

We create and deploy Shopping Carts and Payment Gateways for eCommerce websites that help businesses ensure secure and risk-free transactions. Our Global Delivery Model and industry intelligence mitigate risks and ensure consistent quality and performance.

### 2.2.3. Community Website Development

With the internet boom, it has become crucial for organizations to establish a web presence for themselves. Today, organizations are increasingly looking at exploiting web space to bring together users through online community websites and portals.

VT Software offers cost-effective community website solutions that can help widespread, disparate offline communities to come-together, connect and share thoughts, ideas and valuable information online. Our community websites allow millions of users to communicate through a single platform and share/contribute/process data to an individual or a wide network of users.

VT Software's Community Website solutions enable you to effectively manage and moderate online communities and engage in seamless connectivity with your community members. Leveraging the best-of-breed technologies, we offer solutions that incorporate all the latest features of community websites and ensure no-hindrance, hassle-free communication with your users.



#### 2.2.4. Portal Development

VT Software offers comprehensive offshore Portal solutions that help businesses streamline and standardize their IT operations into a common workspace. Our Portal solutions allow you to access, share and aggregate and manage data through a single portal platform. They facilitate 'standardization' of data across the globally distributed businesses of your Company and optimize the cost of its information life cycle management.

Portal computing has evolved to a great extent and portals have grown from content delivery channels to eBusiness platforms that provide users a wholesome computing experience. VT Software builds third-generation portals that comprise of high-end features like personalized web desktop and applications integration frameworks, Identity Management solutions, Enterprise Content Management (ECM) and search tools etc.

VT Software's Portal solutions encompass all kinds of portals across B2B and B2C verticals - web information portals, eCommerce portals, enterprise portals, information or data sharing portals and commercial/entertainment portals.

#### 2.2.5. Portlets

Enterprise portals are changing the way organizations do business and reachout to users. They help organizations aggregate, distribute and manage enterprise information across multiple user constituents like employees, customers, suppliers, third-party providers and others. Portlets are pluggable user-interface components used in portals for easy information access and sharing. Custom-made, Portlets are integrated with Content Management applications, third party applications, Collaboration tools and other Business Intelligence applications in the enterprise platform for hassle-free data processing/sharing.

VT Software's Portlet solutions assist you in easy consolidation and secure sharing of organizational information across a wide range of users. We design and build Portlets in Sun Microsystems Java platforms and Microsoft .NET framework.

#### 2.2.6. Open Source Solutions

Open Source Solutions have come a long way from the once-upon-a-time image of risk-prone, futile and cheap solutions and emerged into globally-acclaimed and 'in-demand' strategies. Open Source solutions impact business to a great extent owing to their continued evolution as easy-to-deploy, readily-available tools for customers.

VT Software's mature and strategic Open Source customization initiatives provide end-to-end Open Source Solutions to meet your enterprise needs. Our solutions tone-down IT complexity and help you cut-down your eBusiness expenditure through a diverse range of open source solutions packages.

#### Service Highlights

We provide open source customization for OS Commerce sites, Joomla, Drupal, Mambo, Typo 3 and others.



- Open Source solutions Consulting
- Web 2.0 standard web applications/portals
- Architecting open sources
- Integrating, implementing & managing initiatives

#### **2.2.7. Content Management System**

VT Software's Content Management Solutions enable Enterprises to effectively aggregate, process, and archive information under a single content repository. Integrating Content Management utilities into the enterprise architecture, we help organizations eliminate disparate systems of various business units and bring valuable data under the single canopy of an asset management solution.

A significant offering from our inventory, our Content Management solutions allow proper streamlining of individual business processes by reducing data processing bottlenecks and information clutters. Using our asset management systems, you can readily manage and process diverse range of content - such as images, audio content, videos, documents, presentations and other data like marketing collaterals - under a single accessible roof and gain increased margins and big cost savings.

We help in Integration, Pre and Post Implementation support, Customization, Migration and Monitoring of Content Management systems.

#### **2.2.8. Social Engine Development**

If you are in need of Social Engine customization, then VT Software can help you install and customize Social Engine theme and structure to establish your own concept in creating community or networking websites. We have experts in Social Engine who can help you stand out from the crowd with excellent customization.

Experienced in developing social networking websites, we understand the latest trends in social web application development. We help our clients in customizing Social Engine platform to meet their requirements. With the provision for advanced social features, Social Engine helps us to explore new stands in the field of social network website development.

### **2.3. Online Advertisement**

#### **2.3.1. Search Engine Optimization**

Hit the nail on top! Why waste time advertising when you can drive millions of visitors through organic search results? Why labor hard to meet that not-so-effective-advertiser's bill when you can attract quality traffic through search engines?

VT Software's Search Engine Optimization (SEO) practices help businesses optimize their visitor traffic through ethical and cost-effective means. Applying our industry expertise and SEO knowledge, we improve the volume and quality of your traffic and help you stabilize your online identity. Our white hat practices stem from a series of analytical researches like keyword analysis, site analysis, competitor analysis, user behavior studies and search engine algorithms analysis.



Result-focused, our sure-fire SEO practices maximize your ROI and make your eBusiness venture a success. Our approaches are business-specific, industry-unique and result-oriented.

### SEO Work Flow

- Website Analysis
- Site Quality Check
- Competitive Analysis
- Keyword Research & Analysis
- Web Page/Design Optimization
- Content Optimization
- W3C Validation
- Mod Rewrite / Search Engine Friendly URLs
- Robots File Creation
- Sitemap Creation & Submission
- Link Building Campaigns

We also promote your site through all the below techniques to gain better reputation in Search Engines, attract traffic and increase your web popularity.

- Link Popularity Services
- Ads and Classifieds Submissions
- Directory Submissions
- Article Submissions
- Press Release Submissions
- Blogging
- RSS feeds
- Social Bookmarking

### Reports

We believe that updating our Clients about the progress of their websites is as important as optimizing the sites for better rankings and greater internet visibility. We send our Clients a set of important periodical reports to keep them updated about the progress made in their sites.

- Keyword Analysis Report
- Initial Ranking Report
- Monthly Ranking Report
- Comparative Position Analysis report
- Daily Report



### 2.3.2. E-Mail Advertisement

**E-mail marketing** is a form of direct marketing which uses electronic mail as a means of communicating commercial or fundraising messages to an audience. In its broadest sense, every e-mail sent to a potential or current customer could be considered e-mail marketing. However, the term is usually used to refer to:

- sending e-mails with the purpose of enhancing the relationship of a merchant with its current or previous customers and to encourage customer loyalty and repeat business,
- sending e-mails with the purpose of acquiring new customers or convincing current customers to purchase something immediately,
- adding advertisements to e-mails sent by other companies to their customers,

Email marketing is currently the most commonly used online marketing tool. The reasons are plentiful. Nothing can beat it when it comes to marketing success. Many marketers have attained success using this powerful marketing tool.

Used correctly, E-mail can be a powerful marketing tool for increasing brand recognition, increasing sales, driving traffic to your Web site, and building and maintaining customer relationships.

Standard communications mediums available to marketers and advertisers are usually rated on three factors: Reach, Cost and Effectiveness / Retention

Medium	Reach	Cost	Retention
Television	One of the Highest	Very High	Good
Radio	Medium	Medium	Poor
Internet [Banners]	High	Medium	Dropping
Email	High	Extremely Low	Excellent
Print Media	Low	High	High
Billboard / POS / POP	Medium	Medium	Medium
Moving Media	Medium	Medium	Medium
Telephone	Medium	High	Medium
Fax	Low	Medium	Low
Standard Mailers(Postal)	High	High	Medium
Personal Interaction	Low	Very High	High



## 2.4. E-Learning

VT Software executes innovative ideas to e-learning, because we strongly believe that it boost the results in faster, better and more effectively manner.

VT Software works closely with clients as we believe that the best projects are collaborative projects. We listen to ensure we understand your culture, your values, your brand, your challenges along with your requirements and your objectives. We then analyze your needs and provide customized solutions to help you succeed.

VT Software is having strong experience in following services:

- Instructional Design
- Custom Course Creation
- Simulation and Gaming
- Assessments and Testing
- Graphics and Animations
- Learning Module Transformation
- Learning Portfolio Management

## 2.5. Software Testing

VT Software offers a complete and comprehensive range of testing services from Unit Testing to User Acceptance Testing. VT Software's approach to software testing is based on best testing practices deployed in the product development life cycle.

**Partnering with VT Software ensures you to**  
Increase efficiency in production and implementation  
Significantly minimize defects  
Dramatically improve software quality and  
Radically decrease costs across the entire project life cycle

### **Our areas of Expertise includes**

- Requirements Capture and Analysis
- Test Planning
- Test case Design & Traceability Matrix
- Test Execution
- Defect Tracking and Management
- Reporting
- Test Metrics
- Test Stability Analysis coverage
- 

**A complete test service catalog for all your SDLC needs.** We have the experience and expertise in the following types of testing and offer 100% test guarantee.

- Performance Testing
- Functionality Testing
- Compatibility Testing
- White Box Testing
- Security Testing
- Regression Testing
- Product Testing



## 2.6. Multimedia

Visualization forms an indelible imprint on human mind faster than a verbal representation. It is this power of visual and graphical effects that has made Multimedia a force to reckon with. Since it breathes life into any abstract concept, Multimedia has become the most efficient interactive medium of communication. Having realized the pulse of the people VT Software has invested in a state of the art infrastructure and a well-qualified team of programmers and artists to meet the existing demand in the market. VT Software has the strong track record of having serviced various clients across the world, with quality outputs. Our development center is based in Chennai and is capable of servicing the multiple customers along various lines.

Catering to the above goals VT Software has the following broad skill sets

### *a) Interactive Presentations*

Animations, Videos, Sound, Images, Graphics and Text

### *b) 3D Modeling*

Character animation, Logo Animation etc.

### *c) Special Effects*

Used in films and other visual oriented media

### *d) Prepress designing*

Creation of documents, Brochure, Flyers etc

The projects outlined below reflect the success and confidence of the Industry in VT Software ability to deliver effectively.



### 3. Technology

VT Software's technological intelligence spans several platforms, languages and databases. As a leading IT solutions provider, our technical skill set is ever up-to-date, comprising of the latest and the quintessential.

With the industry growing rapidly, technologies grow stale in course of time and are even dished out of the IT arena in a matter of years. This is why VT Software adopts a strategic approach to keep abreast of the latest and in-demand technologies of the industry. We shift to futuristic, next-gen innovations and trends as readily as we update ourselves on prevalent architectures and platforms.

Though our skill set covers a large spectrum of technologies, we primarily operate in Microsoft Technologies, Open Source Technologies (LAMP), Java and mobile technologies.

Our application development services border on technologies like .NET, C#, VB, PHP, ASP, Java, J2EE, J2ME, JSF, EJB, Oracle, MS SQL Server, MySQL, MS Access, Linux, Unix, Mac, Windows, Adobe technologies etc.

VT Software testing team has strong experience with the latest tools on the market to create an integrated, efficient solution that meets your current application needs.

VT Software follows a well-architected development methodology to channelize resources and engage in effective management of projects. Deploying the latest technologies, we deliver work products that offer high levels of consistency in quality and performance. To know more about VT Software's technologies, contact us. To get a free quote for your project, submit your requirements here

### 4. Methodology

VT Software follows a well-architected software development methodology. Tailored to meet international standards and client expectations, our Methodology ensures proper risk management, seamless work flow and deadline-oriented development. It has built-in processes to monitor stringent adherence to quality, consistency in performance and accomplishment of project milestones.

VT Software's software development process spans effective lifecycle models like the Waterfall Model and the Agile Model. Our uniquely designed methodology helps us orchestrate the development processes in a highly productive, performance-enhancing way.

Our lifecycle models address the following phases of software projects:

- Design Phase
- Construction Phase
- Testing Phase
- Operations and Maintenance Phases



#### **4.1.1. Process Methodology**

VT Software's Process Methodology is architected towards streamlining organizational processes and accelerating productivity. We adhere to a well-defined performance and process metrics that ensure proper completion of projects.

##### **Configuration Management**

Configuration Management (CM) Process aims to establish and maintain the integrity of the work products of the project throughout the project's lifecycle. The process includes identification of the product configuration, base-lining and systematic control of changes to the identified configuration items for the purpose of maintaining product/project integrity and traceability throughout the product/project life cycle. The work products placed under CM include the software products that are delivered to the customer (e.g. the Design document and the code). CM consists of five basic procedures: Configuration Item identification, base-lining, configuration control, configuration status accounting and Configuration Auditing.

##### **Decision Analysis and Resolution**

Decision Analysis and Resolution process follows a structured-decision making process to analyze possible decisions that evaluate identified alternatives against established criteria. A structured decision-making process can greatly reduce the subjective nature of the decision, and therefore, lead to a higher probability of selecting the solution that best fits the problem. This process describes how a structured decision-making technique should be applied for both technical and non-technical areas.

##### **Measurement and Analysis**

The Measurement and Analysis process area involves in specifying the objectives of measurement and analysis; specifying the measures, analysis techniques, and mechanism for data collection, data storage, reporting, and feedback; implementing the collection, storage, analysis, and reporting of the data; providing objective results that can be used in making informed decisions, and appropriate corrective actions.

##### **Organization Process Definition**

Organization Process Definition is developing and maintaining a usable set of software process assets that improve process performance across the projects. Depending upon the implementation of Organization Process Definition, the organization's software process assets may be collected in many ways. For example, the descriptions of the software life cycles may be an integral part of the organization's standard software process or parts of the library of software process-related documentation may be stored in the organization's software process database. The organization's software process assets are available for use in developing, implementing, and maintaining the projects' defined software processes.

VT Software's Organization Process Definition helps establish and maintain a usable set of organizational process assets which includes Process for Process Development, Policies, Organizational Standard Processes, Project Specific Processes, Life Cycle Models and Organizational Repository.



### **Organization Process Focus**

Organization Process Focus involves developing and maintaining an understanding of the organizations' and projects' software processes to assess, develop, maintain, and improve these processes. This process provides long-term commitments and resources to coordinate the development and maintenance of the software processes across current and future software projects via a group such as a software engineering process group. This group is responsible for the organization's software process activities. It is specifically responsible for the development and maintenance of the organization's standard software process and related process assets (as described in the Organization Process Definition process area), and it coordinates the process activities with the software projects.

The process aims to plan and implement organizational process improvement based on understanding of current strength and weaknesses of the organization's process and process assets.

### **Organizational Training**

Organizational Training includes training to support the organizations strategic business objectives and to meet the tactical training needs that are common across projects and support groups. Effective training requires assessment of needs, planning, instructional design, and appropriate training media (e.g., workbooks, computer software), as well as a repository of training process data. As an organizational process, the main components of training include a managed training-development program, documented plans, personnel with appropriate mastery of specific disciplines and other areas of knowledge, and mechanisms for measuring the effectiveness of the training program.

The training activities will be performed by the Training Group, Project Manager and the SPG. The Training Group will consist of the Manager - Training & Development (HR), Training Coordinator (HR), and the Trainer.

### **Process and Product Quality Assurance**

This Process is intended to determine systematically and independently whether quality activities and related results comply with planned arrangements or whether these arrangements are suitable to achieve these objectives. This process also concentrates mainly on assessment and involves Internal Quality Audits on all Projects, Support functions, Senior Management, etc., for process compliance against the established Quality Management System.

### **Product Integration Process**

The Product Integration process covers all types of projects and includes identifying product components to be integrated, understanding internal and external interfaces of all product components, identifying best integration sequence, ensuring interface compatibility, assembling the product components and delivering the product as a package. The process achieves complete product integration through progressive assembly of product components, in one stage or in incremental stages, according to defined integration sequences and procedures.



## **Project Management**

The Project Management Process covers the Project Planning, Project Monitoring & Control, and Integrated Project Management processes. Project Planning establishes and maintains plans that define project activities. Project Monitoring and Control provides an understanding of the project's progress so that appropriate corrective actions can be taken when the project's performance deviates significantly from the plan. Integrated Project Management helps monitor and manage project according to an integrated and defined process that is tailored from the organization's set of standard processes.

## **Requirements Management**

Requirements Management involves establishing and maintaining an agreement with the customer on the requirements for a project; managing changes to requirements; ensuring consistency between the requirements; the project plans and work products, and maintaining bi-directional traceability for requirements and work products. Requirements Development Process involves transforming the stakeholders' requirement-driven view of desired services into a technical specification for the products that deliver those services.

## **Risk Management**

Risk Management process describes the practices, procedures, and guidelines that, when implemented, would assist the organization to develop and execute a Software Risk Management Plan. The objective of this plan is to identify risks that occur in an organization as early as possible and describe ways on revising the development strategy to mitigate those risks.

## **Supplier Agreement Management**

This Process focuses on managing the acquisition of products from suppliers by raising the indent, evaluating the suppliers/vendors; purchase orders, receiving the purchased goods and inspecting it, and maintaining purchased goods while they are available in the stock.

## **Technical Solutions**

The Technical Solution process area is applicable at any level of product architecture and to every product, product component, and product-related lifecycle process. Throughout the process areas, where we use the terms product and product component, their intended meanings also encompass services and their components.

## **Verification and Validation**

Verification is to ensure that selected work products meet their specified requirements. The specified requirements are not only found in requirements specification documents but also in functional specifications, architecture and design models, and test cases and so on. Verification is generally an incremental process, starting with product-component verification and usually concluding with verification of fully assembled products.



Validation is to demonstrate that a product or product component fulfills its intended use when placed in its intended environment. Validation may be performed in the operational environment or simulated operational environment. Coordination with the customer on the validation requirements is one of the most essential elements of this process area.

In general, verification and validation activities would be performed continuously during the development of a software component of system.

#### 4.1.2. Project Management Methodology

VT Software follows a structured and well-defined Project Management Methodology. Our Project Management Process includes Project Planning, Project Monitoring & Control, and Integrated Project Management processes.

##### Project Planning

We establish and maintain plans that define project activities.

##### Project Monitoring and Control:

The purpose of Project Monitoring and Control is to get a complete understanding of the project's progress so that appropriate, corrective actions can be taken when the project's performance deviates significantly from pre-defined plans.

##### Integrated Project Management:

We establish and manage the project and the involvement of the relevant stakeholders according to an integrated and defined process that is tailored from the organization's set of standard processes.

Our Project Management Methodology helps us

- Establish and manage projects according to integrated and defined processes tailored to/from organizational standard processes.
- Control the project parameters within planned limits (Scope, Schedule, Budget & Effort, etc).
- Ensure that the relevant stakeholders perform their tasks in a coordinated and timely manner.
- Meet the schedule and strictly adhere to the plans

VT Software's Project Management Process covers developing, monitoring and updating the SOW (Statement of Work), WBS (Work Breakdown Structure), Milestones, Schedules and Communication Plans; determining RAM (Responsibility Assignment Matrix); identifying risks involved; managing stakeholders; recommending corrective actions if there are any deviations in schedules or plans.



#### 4.1.3. Development Methodology

Two prominent models followed by us are Waterfall Model and Agile Model.

##### Waterfall Model

VT Software follows Waterfall life cycle model which emphasizes sequential development and accentuates on a phase-by-phase progress. E.g. Requirement analysis followed by design, followed by code, etc. with established milestones, documents, and then, reviews at the end of each phase. There are no overlaps of phases in this model. Also, the entire scope of the project is addressed at each phase.

We strictly follow the below guidelines in Waterfall development Model:

- Review and Baseline the requirement document before the design phase.
- Review and Baseline the design document before the coding phase.
- Review and Baseline the code before the Testing phase.
- Review and Baseline the Test Plans before the testing phase.

##### Agile Model

Agile Modeling (AM) is a practice-based methodology for effective modeling and documentation of software-based systems. Agile Modeling (AM) is a collection of values, principles, and practices for modeling software that can be applied on a software development project in an effective and light-weight manner.

VT Software adheres to the following principles of the Agile Model (AM):

- First and foremost: Satisfy the customer – Deliver valuable, working software early and frequently
- Measure progress primarily by functionality and performance levels of software
- Depute self-organizing team of motivated individuals
- Have business people and developers work together daily
- Welcome change requirements
- Communicate using face-to-face conversation
- Avoid non-essential work
- Maintain a sustainable pace of development
- Attend to good design continuously

##### Maintenance and Staffing Model

VT Software follows international-standard Maintenance Model and Staffing Model. Our unique and productivity-enhancing Maintenance/Staffing Model enables seamless development process and hampers-down technical havocs or organizational lapses, if any.



## 5. Contact Us:

### Corporate Office

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