

Vehicle Registration System

Team Members:

- 1. Tejus C Subrahmanya
- 2. Tejal Rikame
- 3. Merina Joy

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OVERVIEW

The Vehicle Registration System exists to support the interests of the automotive industry. Working closely with companies, Vehicle Registration System acts as the voice of the motor industry, promoting its position to government, stakeholders and the media. The database is the result of co-operation between the Vehicle Registration System, manufacturer and the DMV.

PROJECT DEFINITION

OBJECTIVES

Implement Vehicle Registration System to support decision making for manufacturers and other customers by

- Building, implementing, hosting and supporting the next generation Vehicle Registration System
 that is cheaper, more reliable and easier to use, with no business disruption to customer
- Providing daily, easily available, reliable and accurate market data
- Providing a consistent, intuitive and flexible user interface

SERVICE TYPE

- Requirements Analysis, Prototyping and Solution Design
- Application Development and Implementation
- Infrastructure Build and Implementation
- Post implementation support
- Application enhancements

DEFINED METHOD OF APPROACH

The project will follow the Waterfall Model with the following phases:

- Planning
- Requirement Gathering and prototyping
- Design
- Build of Infrastructure
- Build of the Application

- QA Testing
- Testing (UAT)Preparation
- Testing (UAT)
- Support

IN SCOPE

The following services are in scope:

Design Services	PlanningRequirement Gathering and prototypingDesign
Implementation Services	 Build of Infrastructure Build of the Application QA Testing Testing Preparation Testing DR Testing Stabilization Support Go-Live Project Performance and Customer Satisfaction Management
Continuous Services	 Infrastructure as a Service Maintenance Services Support Services Business Process Outsourcing Application enhancements

USE CASES

- UC1 Registration Management
- UC2 Model Group Management
- UC3 Dispute Management
- UC4 Model Variant Management
- UC5 Dealer Management

- UC6 Area Management
- UC7 Post Code Management
- UC8 Reports

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Phase	Deliverable	Sign off date	TMT sign-off Authority
Planning	Implementation plan including project plan	1 st Jan, 2016	TBD
Requirements Gathering	 Requirements Specification Document (including Use Cases) Test Strategy Revised Implementation Plan 	4 th Feb, 2016	TBD
Prototyping	HTML mock-ups	3 rd Feb, 2016	TBD
Design	 Design Documents Database Design Document Infrastructure Design Document Test Plan 	3 rd Feb, 2016	TBD
Build	 Unit tested Code Unit test results QA test case document 	29 th July, 2016	TBD
Test - QA(Functional testing, Performance testing)	System test resultsTested and fixed code	20 th Aug, 2016	TBD
UAT Preparation	UAT ready environment	15 th Sep, 2016	TBD
Testing – UAT	 UAT Test results 	21 st Oct,2015	TBD

CONSTRAINTS, DEPENDENCIES, ASSUMPTIONS

CONSTRAINTS

People : None

Time : Vehicle Registration System has to go – live by 29 Nov 2016.

Budget : Fixed Price contract with Change Control

DEPENDENCIES

Availability of the Subject matter experts

- Availability of DMV Service Provider
- Facilitation with manufacturers for
 - o Requirements workshop
 - o Prototype Validation
 - User Acceptance tests

TEAM ORGANIZATIONAL STRUCTURE

PROJECT GOVERNANCE STRUCTURE

Governance Type	Objective	Frequency	Manufacturer	тмт
Strategy Review Board	Provide direction to and oversee the partnership	Within 3 months of Kick - off	Head of Automotive Information Services Legal Director	Executive Director President VP Head Infrastructure Services Sales Director
Programme Management Group	Facilitate the understanding of technical strategies and future developments,	Within 10 days from commencement	Head of Automotive Information Services ABC will choose Manufacturer representatives	Delivery Head – Application Engagement Manager Delivery Head –

Governance Type	Objective Manage risks, Establish and	Frequency	Manufacturer	TMT Infrastructure BI/Data Architect
Operations Review	manage projects Oversee Project Progress	Weekly	Manager	Deliver Head Data Architect Business Analyst Test Architect
Service Review Group	Oversee planning and delivery of the Services	Monthly	Head of Automotive Information Services	Deliver Head Engagement Manager

PROJECT TEAM STRUCTURE

APPLICATION

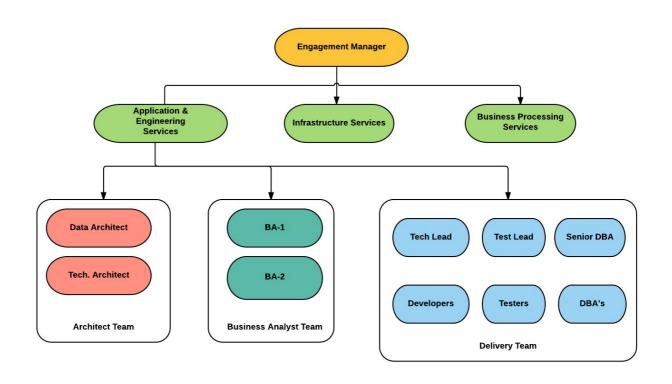


Figure 1: Project team structure

PROJECT TEAM	1 CONTACTS			
Name	Title	E mail	Office Phone	Cell Phone
Tejus S	Delivery Head	tejus@gwu.edu	+12020200202	+12020200202
Tejal	Business Analyst	tejal@gu.edu	+12020200202	+12020200202
Merina	Data Architect	merina@gwu.edu	+12020200202	+12020200202
Krishna	Technical Architect	krishna@gwu.edu	+12020200202	+12020200202
leet	Business Analyst	ieet@gwu.edu	+12020200202	

MANUFACTURERS STAKEHOLDERS

Name	Email	Telephone	Role
Preyan	preyan@gwu.edu	+12020200202	Executive Director
Jeet	jeet@gwu.edu	+12020200202	Manager
Anna	anna@gwu.edu	+12020200202	Customer Service Manager
Anush	anusha@gwu.edu	+12020200202	Solutions Analyst
Puneet	puneet@gwu.edu	+12020200202	Analyst / Project Administrator

TMT PROJECT RESPONSIBILITIES

ENGAGEMENT MANAGER

- Overall in charge of Project delivery from TMT.
- Liaise with various practices/groups in TMT to ensure seamless delivery.

DELIVERY HEAD

Create and track implementation plan. Monitor and report project progress.

- Ensure the project is delivered on time, to budget and acceptable quality levels.
- Manage all changes to the requirements through a formally defined change control process.
- Identify areas for continuous improvement
- Ensure that team members receive any necessary project training and are used effectively
- Manage relationships and co-ordinate work between different teams at different locations
- Ensure that all requirements, schedules and changes to commitment are regularly communicated to manufacturers and project team.
- Decision making on Critical Project issues

BUSINESS ANALYST

- Understand and analyse requirements
- Ensures that functional requirements are mapped to business requirements
- Review Use cases to make sure they meet the agreed requirements
- Provide design inputs where necessary
- Ensures that all business processes are properly mapped to use cases to meet the specific functional requirements
- Provide clarification on use cases and functional requirements
- Query resolution raised by development team
- Build business rules
- Work closely with test team to make sure the required functionality is met
- Prepare Training material and Train the trainer
- Provide necessary support to manufacturer during User Acceptance Testing

DATA ARCHITECT

- Prepare data architecture
- Provide inputs on application architecture

TECHNICAL ARCHITECT

- Prepare Technical Architecture, Deployment Architecture, Integration specifications
- Work closely with developers and testers to ensure implementation meets design specification

Enable Application Lifecycle Management for development

TECHNICAL LEAD

- Define development guidelines, coding standards and review process
- Assist in coding & unit test according to the Project plan
- Responsible for coordinating project activities with other team members, completing status, communicating status, escalating issues as and when necessary
- Testing and validating the business flows on the developed components.
- Review QA test cases

DBA

Database creation

UI DESIGNER

- UI screens design
- UI coding
- UI defect fixing

DEVELOPERS

- Development of the use cases as per design and coding guidelines
- Bug Fixing

TEST LEAD

- Preparation of test strategy and plan
- Review test cases
- Validate test logs and prepare test report

TESTERS

- Prepare test cases
- Execute test cases and create test log
- Perform regression testing

CUSTOMER PROJECT RESPONSIBILITIES

CLIENT

- Provide thought leadership and direction
- Provide the sign off on Planning and Go live
- Participate in Key deliverable review meeting

VRS MANAGER

- Main Point of Contact for TMT for VRS project and live service
- Facilitate interactions with Members and ABC Subject Matter Experts
- Review and Signoff on deliverables

MANUFACTURERS

- Provide input into requirements analysis workshops and prototypes
- Participate in User Acceptance and confidence testing

ESCALATION MATRIX

The escalation matrix as enclosed will be followed for issue resolution

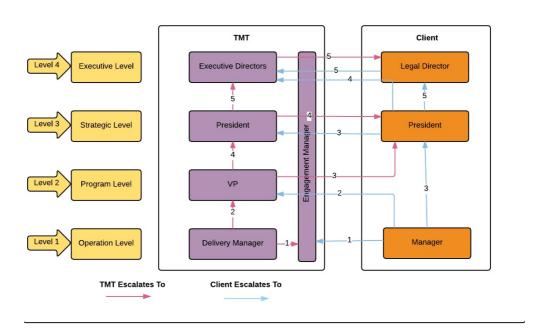


Figure 2: Escalation Matrix

Content of Weekly Status report:

- Key Accomplishments for the Week
- Status report for the week (Planned Vs. Actual)
- Key decisions for the week
- Plan for next week
- Action register
- Risks /issues

Content of Monthly Project Progress report:

- Key Accomplishments for the month
- Status report for the month (Planned Vs. Actual)
- Action register summary

- Risks /issues
- Change register

Content of Quarterly Project Progress report:

- Organisation Update from TMT and Manufacturer
- Engagement status
- Project dashboards
- Project team updates
- Risks /issues (strategic / summary)
- Focus areas for next quarter

PROJECT TRAINING

The team members will be trained mandatorily on the following

SI. No	Trainings	Target Date
1	Quality Management System Training	15-Dec- 2016
2	Application Life Cycle Management	20-Dec-2016
3	Security Principles	31-Dec-2016
4	Data Security Training	31-Dec-2016

PROJECT TOOLS	PRO.	JECT	TOOL	S
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Work Product

Tools Used

Work Product	Tools Used
Project Plan	Microsoft Project
Development	SharePoint Server 2013 SQL Server 2012 Business Intelligence (SSRS, SSIS and SSAS) SQL Server 2012 Developer SQL Server 2012 Enterprise Microsoft .NET Framework 4.0 Windows Server 2012 R2
Source Code/Document Management	Team Foundation Server
Defect Tracking System	JIRA

CONFIGURATION MANAGEMENT PLAN		
Activities when setting up the project	Person responsible	Target Date
Define the configuration processes	Technical Architect	1st Jul 2016
Identify the configuration items	Technical Architect	1st Jul 2016
Install the bug repository tool and set up the database	Technical Architect	1st Jul 2016
Install the software configuration repository tool and set up the database	Technical Architect	1st Jul 2016
Manage and structure the reference space	Technical Architect	1st Jul 2016

Activities during the project lifecycle	Person responsible	Frequency
Check out components for modification, test or delivery from Application Lifecycle Management repository	Technical Lead/Team Members	Daily
Lock accepted and released components	Technical Lead	Daily
Verify version to be delivered and authorise deliverable	Delivery Head	As per the defined plan
Do configuration audits and inspect configuration records	Quality Manager	Monthly

Management activities	Person responsible	Frequency
Manage versions and archives	Technical Lead	Weekly
Manage configuration records	Technical Lead	Weekly
Produce configuration item reports	Technical Lead	Weekly
Manage quality reports	Quality Manager	Monthly

Decisions process and responsibilities

Responsibilities during reviews, audits and approvals are listed below:

At the end of an activity of the project

Activities	Person Responsible
Do a configuration freeze	Technical Lead
Present a configuration state of the components impacted by the activity	Technical Lead

During a configuration management process audit:

Activities	Person Responsible
Do the configuration management process audit	Delivery Head
Present the records of the configuration management process	Technical Lead
Present the quality records of the configuration management process	Quality Manager

RELEASE MANAGEMENT

The solution is built according to the use cases defined in requirements document in a phased approach. The code will be built on weekly basis and will be released for testing during the build cycle.

The following is the build plan during the QA cycle

QA Builds	Release Date

QA Builds	Release Date
QA build 1	3rd Feb 2016
QA build 2 with defect fixes of QA Build 1	10th Feb 2016
QA build 3 with defect fixes of QA Build 2	15th Feb 2016
Alpha Build	23rd Feb 2016
Performance testing build	26 Feb 2016
Final build	28 Feb 2016

RISK AND ISSUE MANAGEMENT PLAN		
Risk Description	Mitigation Plan Proposed	
Mismatch of expectations among Manufacturers / Members / other customers	Requirements workshop to be conducted with all necessary stakeholders Sign-off by manufactureres on deliverables Regular Governance meetings and communication to all stakeholders at various levels	
Any Changes in the file specifications/Manufacturer extract file definition	Any changes will be routed through Change Control process	
Milestone delays due to sign-off	TMT will provide deliverables two weeks in advance for sign-off and sections of documents in advance of this as appropriate.	

DOCUMENT CONTROL

DOCUMENT INFORMATION	
Prepared by:	Merina Joy
Delivery Head:	Tejal Rikame
Engagement Manager:	Tejus C S

DOCUMENT REVISION HISTORY Version Date Author Description 1.0 23/01/2016 First Submission to manufacturers

APPROVERS

Electronic Approvals only

Approver Name	Company	Date
Preyan	Manufacturer	
Tejal Rikame	ТМТ	
Merina Joy	ТМТ	