
Software Requirements Specification

for

D7 Auto Service Center Web- app

Version 1.0 approved

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Asia Pacific College

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Table of Contents

Table of Contents	ii
Revision History	ii
• Introduction.....	1
○ Purpose	1
○ Document Conventions	1
○ Intended Audience and Reading Suggestions	1
○ Product Scope.....	1
○ References	1
• Overall Description	2
○ Product Perspective.....	2
○ Product Functions.....	2
○ User Classes and Characteristics.....	2
○ Operating Environment	2
○ Design and Implementation Constraints	2
○ User Documentation.....	2
○ Assumptions and Dependencies.....	3
• External Interface Requirements	3
○ User Interfaces.....	3
○ Hardware Interfaces	3
○ Software Interfaces.....	3
○ Communications Interfaces.....	3
• System Features.....	4
○ System Feature 1	4
○ System Feature 2 (and so on)	4
• Other Nonfunctional Requirements	4
○ Performance Requirements	4
○ Safety Requirements.....	5
○ Security Requirements	5
○ Software Quality Attributes.....	5
○ Business Rules.....	5
• Other Requirements	5
Appendix A: Glossary.....	5
Appendix B: Analysis Models	5
Appendix C: To Be Determined List.....	6

Revision History

Name	Date	Reason For Changes	Version

• Introduction

1.1 Purpose

The purpose of this document is for the project of the Elite Four of Asia Pacific College to their chosen client, being, D7 Auto Service Center. This project is entitled D7 Auto Service Center Web-app which aims to provide an additional platform for D7 in which their customers may start booking online through this additional platform, and that it will have features that will be helpful for the client and their customers.

1.2 Document Conventions

Convention	Definition
<i>DB</i>	<i>Database</i>
<i>ERD</i>	<i>Entity Relationship Diagram</i>
<i>WBS</i>	<i>Work Breakdown Structure</i>
<i>SRS</i>	<i>Software Requirement Specification</i>
<i>CSS</i>	<i>Cascading Style Sheets</i>
<i>HTML</i>	<i>HyperText Markup Language</i>
<i>JS</i>	<i>Java Script</i>

1.3 Intended Audience and Reading Suggestions

This project is a prototype for the booking of reservations for the D7 Auto Service Center and it is intended to be used by D7 Auto Service Center only. It is implemented under the PBL or Project Based Learning requirements of the BSIT-MI Students of Asia Pacific College, and under the guidance of the subject course's advisers and consultants.

1.4 Product Scope

The purpose of this project is to provide an additional platform for D7 Auto Service Center that will enable online booking and management for D7 Auto Service Center. Furthermore, it aims to increase their customer reach through the additional platform

and have the web-app to be tailor-fit to the client's needs to the best of the ability of the project developers.

1.5 References

N/A

2 Overall Description

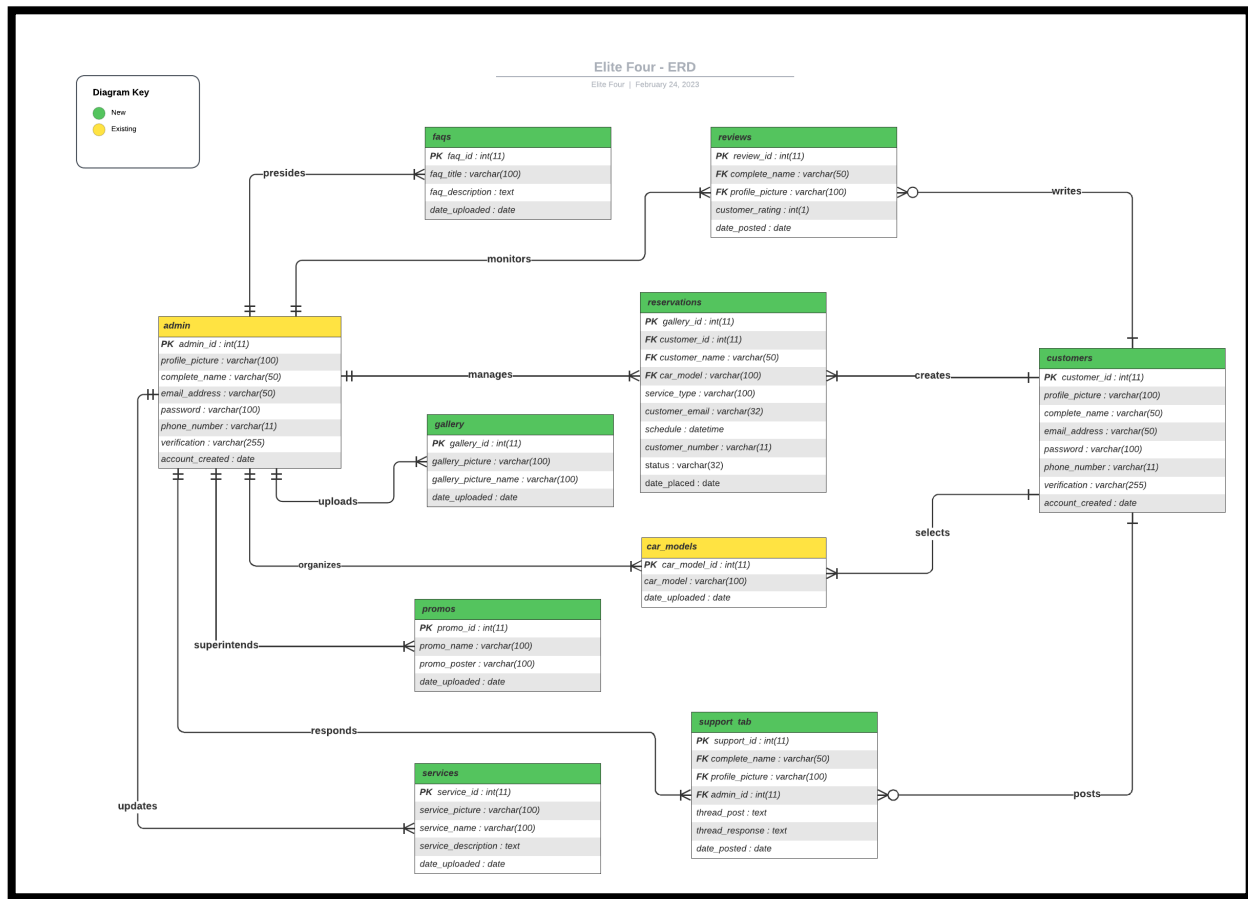
2.1 Product Perspective

The D7 Auto Service Center Web-app will be an application that stores the following information:

- **Customer Reservation Details** – *This information is stored to identify, process, and grant or cancel a client's request to book for a service in the D7 Auto Service Center Web-app. It will be stored and be of confidentiality only available to D7's Management and the end-user (client) of the web-app.*
- **Customer Review and Description** – *The Web-app will also store the data sent by the user which are the review rating stars from their service experience from D7 as well as the description of the service experience form what was rendered to them.*
- **Customer Community Thread Posts** – *The posts and replies of the customers in the d7 Cares thread will also be stored for the sole purpose of making sure that the management obtains pertinent information from their customers that will be of great help in helping D7 have informed decisions for the business.*

2.2 Product Functions

The Web-app will be comprised of features that will be present in the Entity Relationship Diagram:



2.3 User Classes and Characteristics

The user classes of the Web-app are divided into two. These are the admin/management and the customers of the web-app.

Customers of D7 Auto Service Center that will use the web-app may be able to:

- Make a reservation of services available
- Cancel a reservation
- View reservation(s) made
- Write a Review for the Web-app
- Post a thread in the D7 Cares Community
- Send and inquiry to D7

The Admin/Management of D7 Auto Service Center should be able to:

- Manage bookings made by the customers*
- Manage services posted in the services*
- Manage promotions posted in the promos*
- Manage and reply to threads in the D7 Cares Community*
- Manage the Gallery Section of the Web-app*
- View the Statistics of the performance of D7 in the Web-app*

2.4 Operating Environment

The operating environment will be for the D7 Auto Service Center Web-app which will be:

- 1.** *A distributed data bases*
- 2.** *Admin Management Tab*
- 3.** *Admin Statistics Dashboard*
- 4.** *Operating System: Any browser that supports the web-app*
- 5.** *phpMyAdmin*

2.5 Design and Implementation Constraints

The design and implementation will be:

- 1.** *SQL Commands for the database*
- 2.** *The database constraints*
- 3.** *The schemas from the aforementioned software*

2.6 User Documentation

The Elite Four's project for d7 Auto Service Center will have a manula for the usage of the web-app and a guide through this Microsoft Sway:

[Elite 4 - Sway.com.url](#)

2.7 Assumptions and Dependencies

Regards to the assumptions and dependencies, they would be (1) customer must book atleast one day ahead of the booking time, and that selected date must have available slots in that period. (2) The calculation of prices of services will vary and that customers are notified of the varying prices.

3 External Interface Requirements

3.1 User Interfaces

Front-end software: CSS, HTML & JavaScript

Back-end software: MySQL, phpMyAdmin, & JavaScript

3.2 Hardware Interfaces

The hardware interface of the web-app will require a Windows OS device to run the web-app as well as a working browser that supports and caters HTML, CSS, and JavaScript for the web-app to be functional for both D7 and their clients.

3.3 Software Interfaces

The software interfaces of the web-app will be of use with Windows for user-friendliness purposes; and that it will also use a database to store the data that will be gathered from the operations performed in the web-app such as the reservation, reviews, and threads. It will also use HTML, CSS, and JavaScript to code and create the web-app.

3.4 Communications Interfaces

The communication interfaces of the web-app will be of help because it allows numerous browsers to be used to access the web-app and use it to function as it is intended to for both the customers, and the admin/management of the web-app.

4 System Features

The D7 Auto Service Center Web-App is a booking system that allows customer to reserve a service for their vehicles conveniently. The system maintains information on statistical reports such as the total visits, least and most acquired services, total account registered, total bookings, ratings, and reviews. This part of the project has a high priority as reason of, it is difficult to acquire a service without making a reservation.

4.1 System Feature

4.1.1 Description and Priority

The D7 Auto Service Center Web-App is a booking system that allows customer to reserve a service for their vehicles conveniently. The system maintains information on statistical reports such as the total visits, least and most acquired services, total account registered, total bookings, ratings, and reviews. This part of the project has a high priority as reason of, it is difficult to acquire a service without making a reservation.

The Register (3) and Login (1) features is a must priority because without this feature, the customer won't be able to make an account and login in the web-app. The Service Reservation (3) is a must priority because this feature will allow the customer to make an appointment. The Inquires feature (5) is a should priority because this enables the customer to send general inquiries to the admin. The Reviews feature (3) is a must priority because this allows the customer to write a review about the establishment's services. The Web-app details (5) are a must priority, this enables the customer to know more about the establishment's available services. The Statistics feature (5) is a must feature because this allows the admin/management to view the

statistics of the web-app. Lastly, the Manage Web-App (8) is a must priority because this enables the admin to manage the web-app by add, read, update, and delete any content.

4.1.2 Stimulus/Response Sequences

Customer Side:

Register and Login

- Find the registration page.
- Displays the registration prompt.
- Fill-out the important credentials.
- Submit
- Find the “Login” button and proceed to input the correct credentials.

Service Reservation

- Find the “book now” button.
- Displays a detailed list of available services; it’s time and date.
- Book a reservation on a particular time and date.
- Submit

Inquiries

- Navigate the chat icon bottom right.
- Write the inquires or choose the automated questions.
- Send the inquires by clicking the send button or click the automated questions.
- Wait for the automated response.

Reviews

- Find the “write review” button.
- Fill-out the reviews and rate by using stars.
- Upload the reviews.

Web-App details

- Navigate the web-app.
- Choose where to visit services or shop details.

Admin/Management Side:

Statistics

- *Login in the web-app*
- *Find the dashboard section.*
- *View the statistics.*

Manage Web-App

- *Find the dashboard section.*
- *Displays the generated statistics.*
- *Perform CRUD operations.*

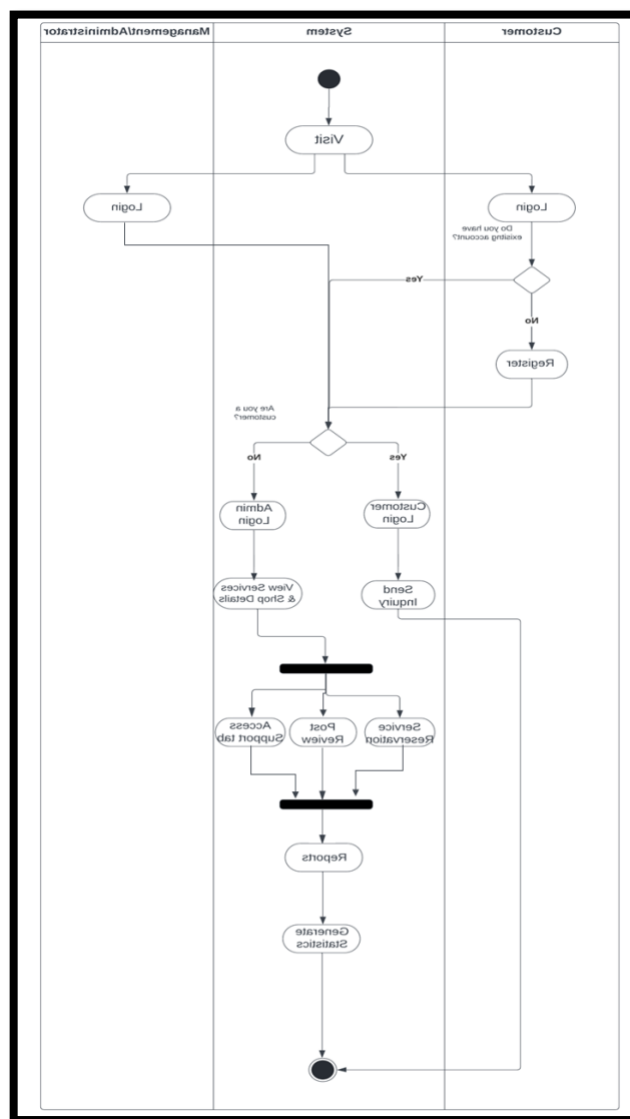
4.1.3 Functional Requirements

The frontend will use CSS, HTML, and JavaScript and this frontend will be connected to the backend of the application which uses phpMyAdmin and MYSQL for the database under a hosting company.

5 Other Nonfunctional Requirements

5.1 Performance Requirements

The Activity Diagram provides a view of the process of how the customer and admin/management visits the web-app. This diagram is utilized to visualize the flow of the implementation of the system.



5.2 Safety Requirements

The team will ensure the database will have good security implementations to minimize possible breach and attacks in the future. However, the constraints such as catastrophes will be out of the scope of the safety requirements.

5.3 Security Requirements

The web-app utilizes MySQL as their database, and security principles such as authentication and password management, authorization, and role management were used. There is an archive storage where the customer cancels or the admin deletes a reservation.

5.4 Software Quality Attributes

- **Availability:** *Due to the large number of customers making reservations in advance, the reservation should be available on the specified date and time.*
- **Flexibility:** *The reservation should be able on different devices such as mobile, tablet, laptop and etc.*
- **Maintainability:** *The admin/management should maintain the correct schedules of acquired services.*
- **Usability:** *The reservation schedules should satisfy a maximum number of customer's needs.*