Software Requirements Specification Template

Paddle My Way

Software Requirements Specification

Version 1.0

10/16/2022

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Submitted in partial fulfillment

Of the requirements of

CSIS 44-691 Graduate Directed Project 1

# Revision History

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| --- | --- | --- | --- |
| **Date** | **Description** | **Author** | **Comments** |
| <date> | <Version 1> | <Your Name> | <First Revision> |
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# Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

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| **Signature** | **Printed Name** | **Title** | **Date** |
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**1. Introduction**

**1.1 Purpose**

In this project a detailed review of the tour and travels management system. The main objective of this application is to provide best travel destinations for travelling based on the factors like no. of people, season, budget and various other factors. Searching will be very easy as it asks the user to enter the details. At a single click the user will be able to fetch the required data. This project will provide the relevant information about accommodation, mode of transportation and description about the places. This Paddle My Way (Tour & Travel) system will be helpful for people who are planning to travel.

**1.2 Scope**

The main scope of the project is described below

* The project's main purpose is to give information about places which travelers want to visit and provide features to find nearby famous tourist spots, restaurants etc.
* In this project we include exclusive features to give the best mode of transportation, no. of places to visit and budget calculation based on number of people and season chosen by the user.
* It also includes extended features like updated information of the places, generating reviews based on the travel experience and photos uploaded by the user.

**1.3 Overview**

Our project is about travel planning where the user must sign up and then login to find budget-friendly places. Following the selection of the region, the user must specify the season, budget, departure date, and number of people. This application provides a list of places to visit along with the description of the place in that region. Based on the Wishlist of the travel i.e., amusement parks, museums, cruise tours etc total estimated budget for the travel will be calculated. This will also have features to add the mode of transport and accommodation details which will be redirected to the respective sites. The user can enter the booking details for the total trip. The user can also provide reviews of the places after their travel. The user will also be able to view their previous and upcoming travel bookings.

**2. General Description**

In our project, we are developing an IOS application where users need to sign up and then login to the application to find the budget friendly places. Once the user selects the region, they will need to select the season they are planning to travel, budget, date of departure and no. of people. Based on their requirements for the plan, the application will provide details like types of Transportation for the trip, best places to visit nearby, best season to visit the place, total no. of days of the plan, type of accommodation, nearby restaurants, and reviews of the places. The user will also be able to look at their past travel bookings, upcoming bookings.

**3. Specific Requirements**

**3.1. External Interface Requirements**

We will be having external websites like different airways, accommodations, restaurants containing the information.

**3.1.1. User Interfaces**

We are designing a user interface with the help of Swift Language.

**3.1.2. Hardware Interfaces**

1. Operating System (32- or 64-bit iOS)
2. Processor (1 dual core or single core processor)

**3.1.3. Software Interfaces**

1. CSS
2. HTML
3. Java Script
4. MySQL
5. XCODE.

**3.1.4. Communications Interface**

The Communication Interface we are using for our project is Appstore.

**3.2. Functional Requirements**

**Customer side: -**

* Ability to sign up/login into the application.
* Ability to search for the tourist place after successfully logging in.
* Ability to view the results from the search list of the application.
* Ability to redirect to the external website based on the provided URL.

**Administration side: -**

* Ability to login in the user.
* Ability to display the requested information from the customer.
* Ability to display the places which the user is referring or searching for.

**3.3. Use Cases**

In this Project the primary goal is to provide all the details such as place and rating of the places and travelling preferences on a single application, which indeed helps the customers to save their valuable time.

**3.4. Class/Objects**

We will create the classes accordingly once we start implementation of the project.

**3.5 Non-Functional Requirements**

**Performance**

Performance is the objective measurement and perceived user experience of a web site or application. This includes the following major areas:

* 1. Reducing overall load time
  2. Making the site usable as soon as possible
  3. Smoothness and interactivity

**Reliability**

In applications, reliability is the main concern. It basically has the factors which make applications strong, usable, mature, and effective. It deals with the rate of failure in applications.

**Availability**

Availability refers to the ability of the users to access and use an application. It is typically communicated as a percentage for a given span of time.

**Security**

Application security refers to a variety of processes, technologies, or methods for protecting such as Apple’s App Sandbox, APIs from attack by Internet-based threats.

**3.7 Design Constraints**

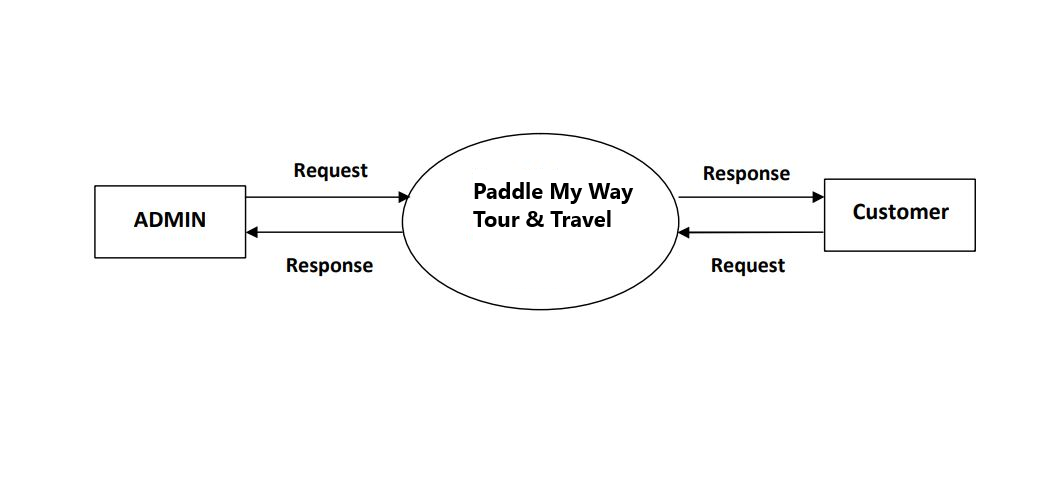
System design is the solution to the creation of a new application. In this phase we focus on the detailed implementation of the building application. It emphasizes translating design specifications to performance specifications. System design has two main phases of development: logical and physical design.

The analyst describes inputs (sources), outputs (destinations), databases (data stores), and procedures (data flows) in a format that meets the user's requirements during the logical design phase. The analyst also specifies user requirements at a level that virtually determines the information flow into and out of the system, as well as the data resources. Data flow diagrams and database design are used to create the logical design in this case.

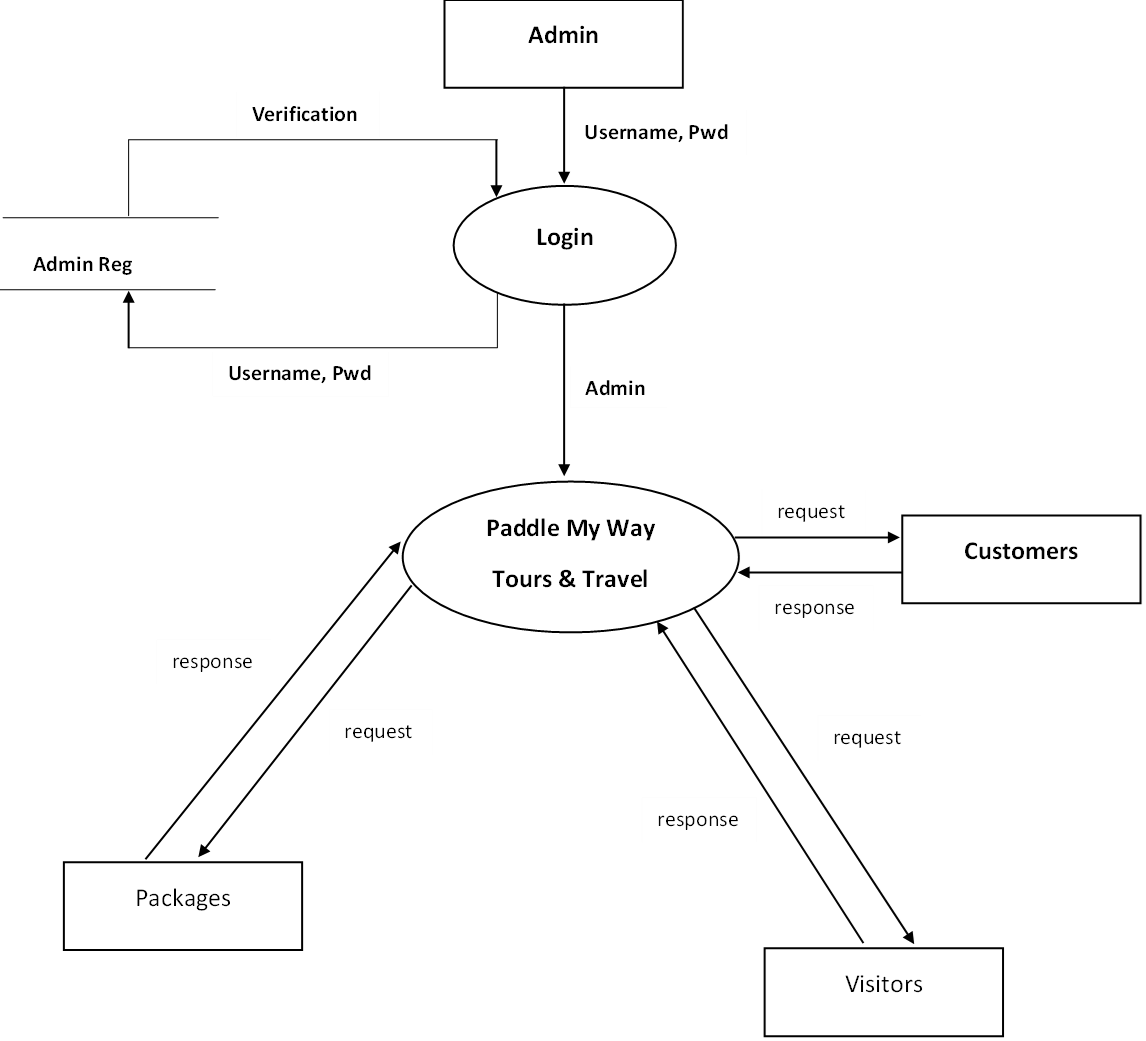
The physical design is followed by the user interface design and coding. By defining the design specifications, which tell the programmers exactly what the candidate system must do, physical design creates the working system. Programmers create the programs that accept user input, perform necessary processing on accepted data, and generate the required report on paper or on the screen.

**Use Case Diagrams**

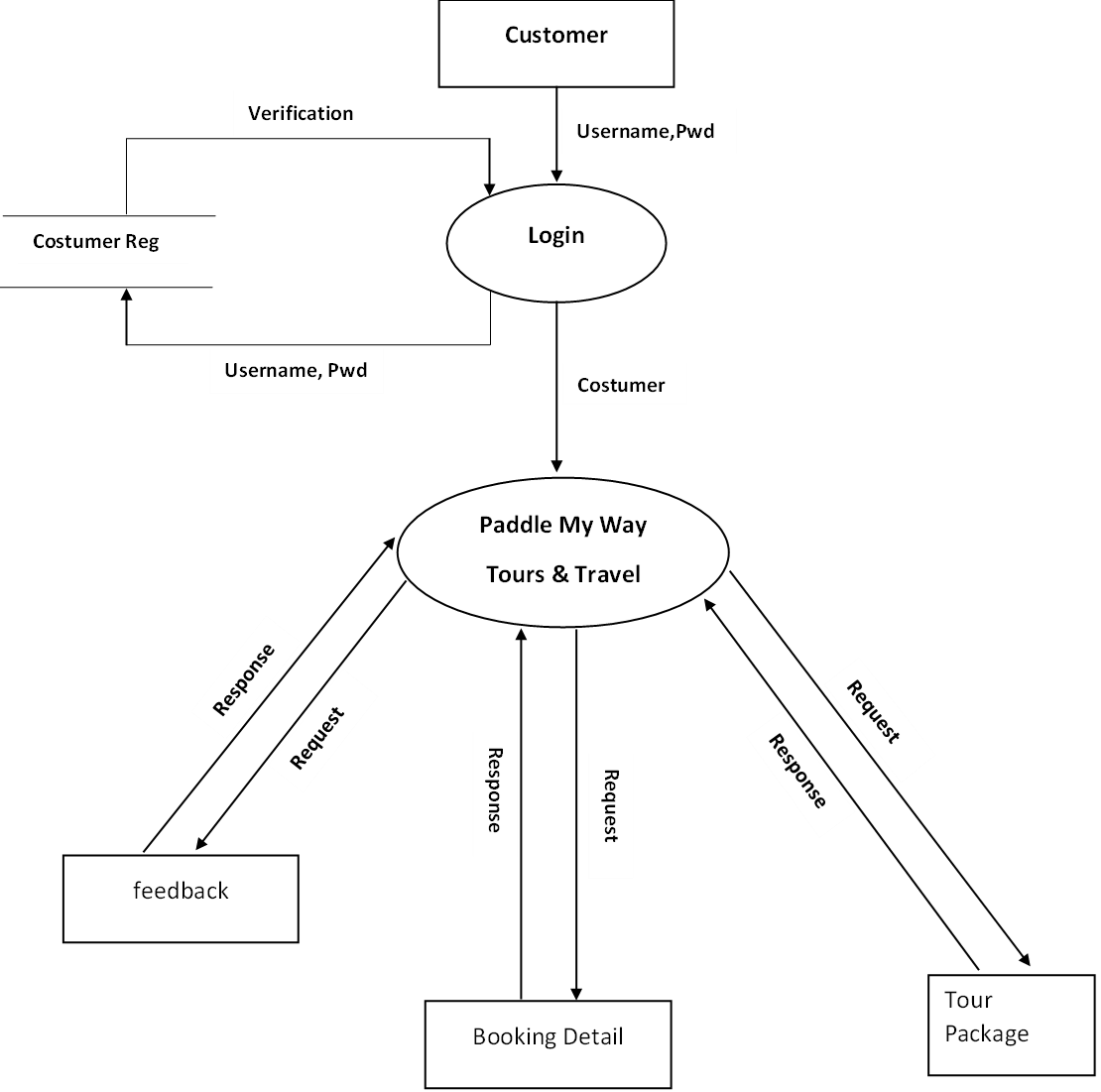
**Data Flow Diagram**

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**First level Data Flow Diagram for ADMIN**



**First Level Data Flow Diagram for Customer**



**4. Design**

**4.1. ER Diagram**

Timeline

Description automatically generated with medium confidence

**4.2 GUI:**

**1. Home Screen**

Graphical user interface, application

Description automatically generated

**2.Sign Up Screen**

Graphical user interface, text, application

Description automatically generated

**3.Sign In Screen**

Graphical user interface, text, application

Description automatically generated

**4.Dashboard Screen**

Graphical user interface, website

Description automatically generated

**5.Filter Screen**

Graphical user interface, text

Description automatically generated

**6.Locations Screen**

Graphical user interface

Description automatically generated

**7.Events Screen**

Graphical user interface, website

Description automatically generated

**8.Reviews Screen**

Text

Description automatically generated

**9.Wishlist Screen**

Graphical user interface, chart

Description automatically generated with medium confidence

**10.Payment Screen**

Graphical user interface

Description automatically generated

**11.Payment Confirmation Screen**

Graphical user interface

Description automatically generated