Make my trip - software requirement specification srs

Software Engineering (Lovely Professional University)

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Make My Trip!

S.R.S Document

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Chapter 1

1. Introduction

1.1 Purpose

<u>**Make My Trip.**</u> This website helps the users to plan their trips. The website offers numerous travelling and hotel packages that helps the user to plan his trip according to their budget. Other advantages of this product is route planner which helps to plan the route, the user should be undertaking and Forex for its international users

1.2 Scope

- There are two basic users – Anonymous, Registered Members(customers).
- The customer, through the process of account creation, will have the option to Become a member of the site.
- The system will allow customers to browse, search, select the kind of package they want.
- The customers with accounts get a personalized experience according to their previous trips.

1.3. Definitions

- ✓ <u>**C++:**</u> C++ language is intended to be a simple, modern, general-purpose, object-oriented programming language

- ✓ <u>**SQL SERVER 2005**</u>: Microsoft SQL Server is a relational database server, is a software product whose primary function is to store and retrieve data as requested by other software applications

- ✓ <u>**HTML:**</u> It is a Hypertext Markup Language used to design client side static web pages.

- ✓ <u>**CSS:**</u> **Cascading style sheets** is used for managing and formatting layout of HTML web pages.

- ✓ <u>**HTTP:**</u> **Hypertext Transfer Protocol:** It's a service protocol

Overview

Existing System:
- Manually Registration

Drawbacks:
- No refund on flight cancellations.
- People who doesn't have a knowledge of computer and internet cannot use the system
- Lots of advertising with spam emails.
- No comparison program like other sites.

Proposed System:
- Spam mails to be reduced.
- Notification through mobile messages.
- Comparison program of flights and hotels with other sites to be introduced.

Our Plan:
- Better offers for members.
- Online tracing for the users.
- Feedback from user

Chapter 2

General Description

2.1. Product Perspective

The Make My Trip network system doesn't work independently. It has to work together with the computer software owned by the Hotels, Airlines,etc. There are clearly defined interfaces for the different systems.

2.2. Product Function

Make My Trip:

Functional Requirement 1

- Description
  Ask the user to enter details in order to become a registered user.
- Input
  Name in characters, email and password in alpha numeric value
- Processing
  Storing the values entered in the database and check if a person with same email available or not. If not then store in database else an error generated.
- Output
  Confirmation message registered successfully.

Functional Requirement 2

- Description
  Initialize the username and password for login
- Input
  Username and password in alphanumeric value
- Processing
  Storing the values and checking whether true or not
- Output
  Confirmation message login successful else login failed.

Functional Requirement 3

- Description
  Form validation
- Input
  Name in characters, email and password in alpha numeric value
- Processing
  Storing the values entered and checking whether they are valid or invalid

- Output
  Confirmation message valid.

Functional Requirement 4

- Description

Profile update to update the current details to the new one.

- Input
  Name in characters, email and password in alpha numeric value, mobile number, address, date of birth.
- Processing
  Storing the values entered by the user in the database
- Output
  Confirmation message profile updated successfully.

Functional Requirement 5

- Description
  Search flight
- Input
  Destination and boarding place and date of journey
- Processing
  Fetch the list of all the flight according to details entered by the user.
- Output
  Displays the list of all the flight as per the user requirement.

Functional Requirement 6

- Description
  Search buses
- Input
  Destination and boarding place and date of journey
- Processing
  Fetch the list of all the buses according to details entered by the user.
- Output
  Displays the list of all the buses as per the user requirement.

Functional Requirement 7

- Description
  Search trains

- Input
  Destination and boarding place and date of journey

- Processing
  Fetch the list of all the train according to details entered by the user.
- Output
  Displays the list of all the trains as per the user requirement.

Functional Requirement 8

- Description
  Search and book hotels
- Input
  Place and date
- Processing
  Fetch the list of all the hotels according to details entered by the user.
- Output
  Displays the list of all the hotels with cost as per the user requirement and when clicked on book redirects to payment gateway

Functional Requirement 9

- Description
  Confirm booking
- Input
  Select or click on train/bus/flight and number of persons travelling
- Processing
  Fetch the seat availability and if not available displays an error message.
- Output
  Redirects to payment gateway if seats are available.

Functional Requirement 10

- Description
  Tours
- Input
  Place and number of people travelling
- Processing
  Fetch the list of all the tour plans according to details entered by the user.

- Output
  Displays the tour plan with cost as well as places to be visited and accommodation details and when clicked on book redirects to payment gateway

Functional Requirement 11

- Description
  Payment gateway
- Input
  Card details including card number, CVV, expiry date.
- Processing
  Checks the information provided to bank server. If successful, money gets debited from user bank account and credited to site owners account, else display error.
- Output
  Message registered successful if no error was generated else display error message.

Functional Requirement 12

- Description
  Rate and review us
- Input
  Comment on a particular tour plan or service.
- Processing
  Stores the comments about that particular tour plan/services in the database.
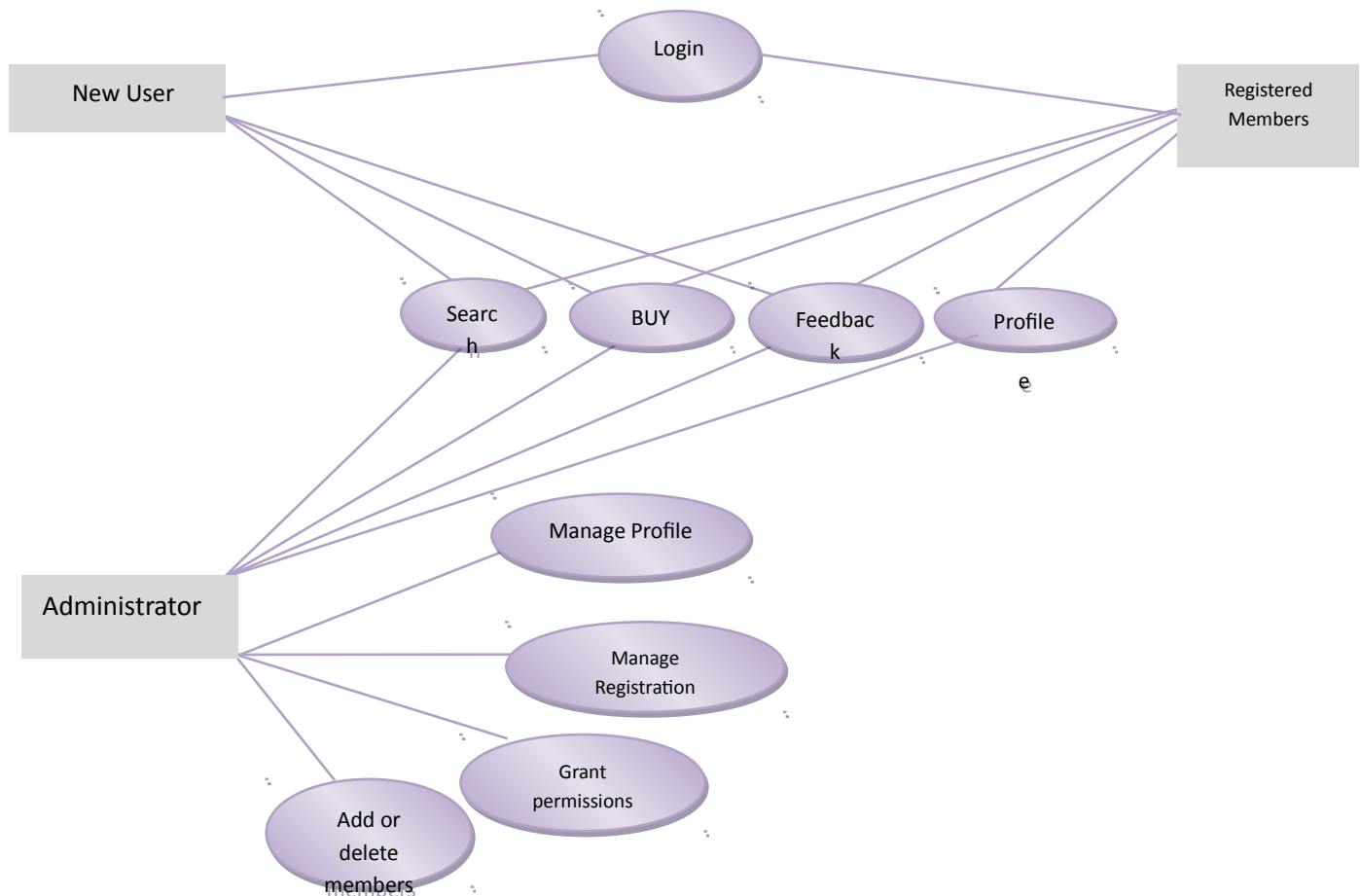- Output
  Confirmation message "thanks for rating us".

2.3. User Characteristics

- **Guest/Anonymous:** Non Members can visit the pages of website onlyand can not register for a trip.

- **Registered Members (customers):** Registered members can access all the functionalities provides on website. Registered Members have their own profiles.

2.4 Use Case Model

Use cases were designed for object oriented software development they focus on what the user need to do with the system. This approach is more powerful as compared to
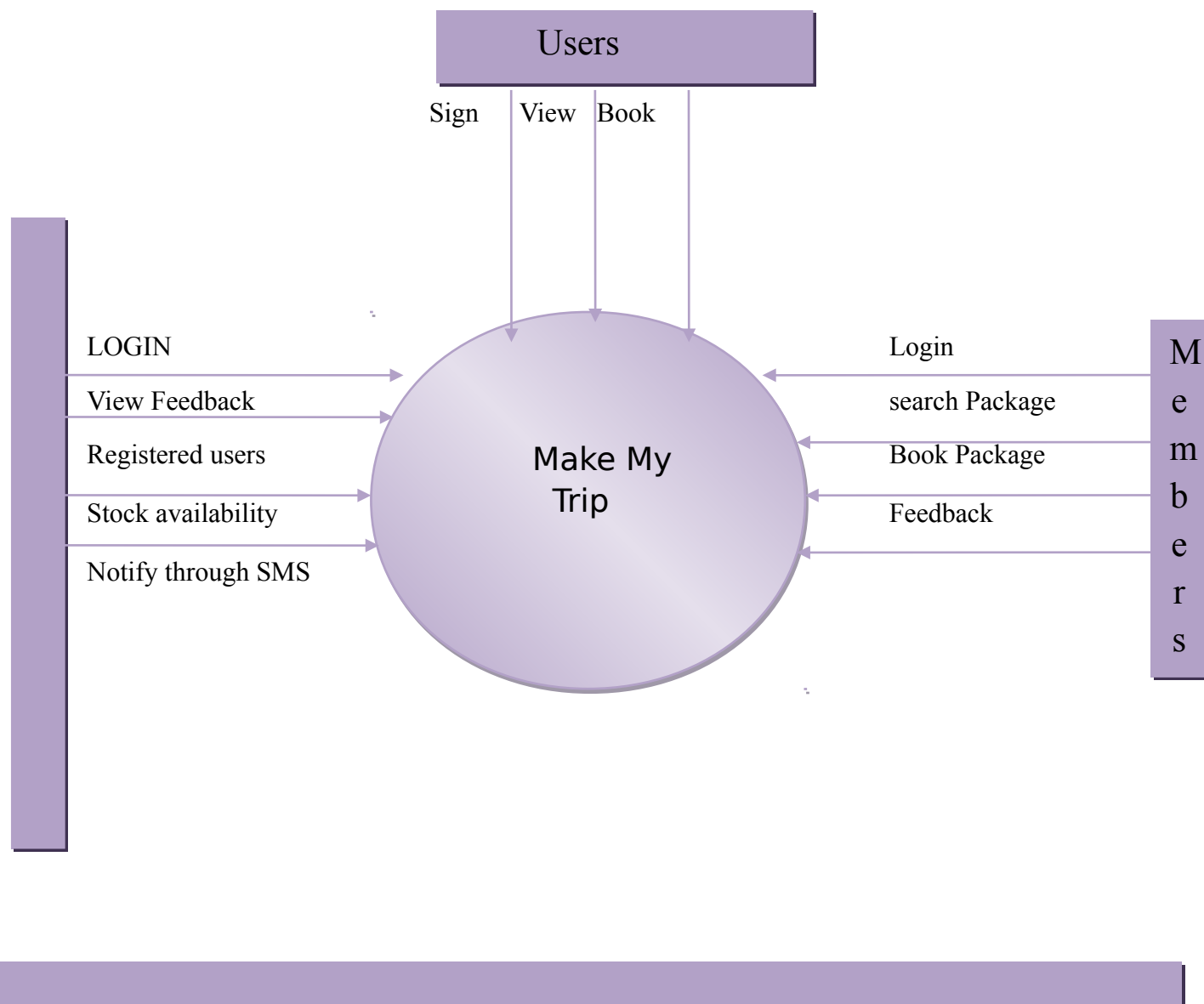
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traditional approach. It used a combination of text and pictures in order to improve the understanding of requirements. The use case describe 'what of a system and not how of a system'. They only give the functional view of the system.

New User

Registered Members

Login

Search

BUY

Feedback

Profile

Administrator

Manage Profile

Manage Registration

Grant permissions

Add or delete members

USE CASE DIAGRAM

2.5. Data Flow Diagram

2.5.1. Context Level Diagram Level(0):

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Users

Sign   View   Book

LOGIN

View Feedback

Registered users

Stock availability

Notify through SMS

Make My
Trip

Login

search Package

Book Package

Feedback

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Chapter 3

3.0. Specific Requirement.

- ASP.NET : Front End
- HTML5, CSS3 and Jquery : Client Side(JAVA Script)
- SQL Server : Back End
- IIS : Web Server

3.1 Supplementary Requirement

Safety Requirements

Highly recommend Quick Heal 2017 internet security to been Installed in users Pc to prevent the harm that may occurs by unwanted malicious software's, phishing URLs and all the types of virus attacks during using this application..

Security Requirements

All users should be properly authenticated before allowed entry into the system authentication will be based on an E-mail address, and a password. All activities on the system must be logged.

Non-Functional Requirements

- Secure access of confidential data (user's details). SSL can be used.
- 24 X 7 availability.
- Better component design to get better performance at peak time.
- Flexible service based architecture will be highly desirable for future extension.

Other Requirements

The user must be agreed with all the term and conditions that have provided by the System Administrator, local authority and Should Obey to the all International standards and Protocols.