

PES UNIVERSITY

**AUGUST – DECEMBER 2022 SEMESTER 5**

## **CASE STUDY UNIT 2**

**SECTION : C**

**TEAM NUMBER:6**

**TEAM MEMBERS :**

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### **Problem Statement – 1:**

Your new software project is a product delivery platform. As a part of project initiation and approval you are required to perform and note down a thorough competitor analysis. (Some companies with a product delivery platform are Unbxd, Algolia etc.) After your analysis, you are expected to do the following exercise as a part of risk management.

On the digital document or paper, add columns with the following headers:

- What could cause a miss in your deadline?
- What will keep your project on time?
- What does this project need that you don't have?
- What do you already have that this project needs?
- What are you worried about?
- What are you excited about?
- What could go wrong with this project?
- What could go right with this project?

Brainstorm and write down answers for these questions first. Next, mention the points that you feel are going to be risks and successes. (Hint:

To identify successes, ask yourself this question – “What’s the opposite of this risk?”)

## **SOLUTION :**

1. What could cause a miss in your deadline?	<ul style="list-style-type: none"><li>• Lack of proper planning</li><li>• Improper estimation</li><li>• Uncommitted stakeholders</li><li>• Ineptness with technology</li><li>• Shifting project requirements</li></ul>
2. What will keep your project on time?	<ul style="list-style-type: none"><li>• creating a project plan</li><li>• Project schedule management process</li><li>• Define the project activities</li><li>• Determine dependencies</li><li>• Estimate the duration and resources</li></ul>
3. What does this project need that you don't have?	<ul style="list-style-type: none"><li>• We don't have a dedicated UI/UX designer, which can be crucial when it comes to customer oriented Applications.</li><li>• So our Frontend Engineers will take care of the design. We can bring some more fixes in the UI in further iterations of the product.</li></ul>
4. What do you already have that this project needs?	<ul style="list-style-type: none"><li>• We have a good developing team for developing and maintaining the software. Teams have been formulated and the tasks have been assigned.</li><li>• Currently, we have an established distribution network and an excellent staff to handle the distribution of our products.</li><li>• We have also invested in an excellent software package and server for the purpose of handling large numbers of orders and a good customer base.</li></ul>
5. What are you worried about?	<ul style="list-style-type: none"><li>• Server overloading might be a problem in case of heavy orders during festival seasons which needs to be tackled effectively.</li><li>• Increasing fuel cost is one of the things that worries us the most because the increase in fuel prices</li></ul>

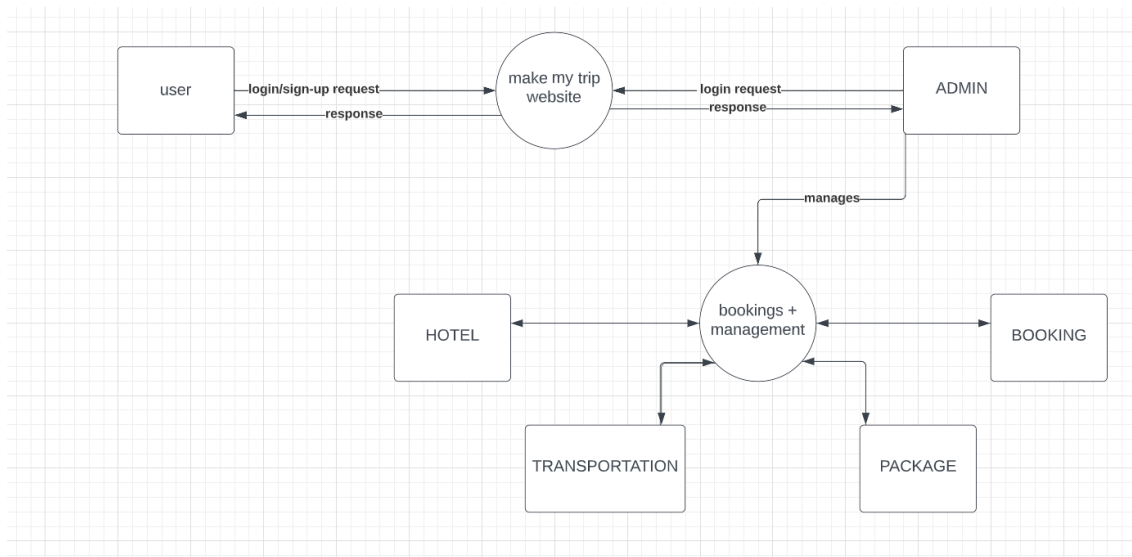
	<p>will lead to an increase in shipping charges, which may hinder the business.</p> <ul style="list-style-type: none"> <li>• In case of cancelled orders, it will be a loss for the company because of the high transportation costs.</li> </ul>
6. What are you excited about?	<ul style="list-style-type: none"> <li>• Excited about the increasing number of products and variety of customers. With the increase in the variety of customers, the number of products increases as well.</li> <li>• By expanding the development team, we can come up with unique ideas for the existing technology to enhance the market and customer reach.</li> </ul>
7. What could go wrong with this project?	<ul style="list-style-type: none"> <li>• Tight Schedules, project managers face the pressure of having to deliver the project earlier than anticipated. This can happen due to many different reasons – lack of resources, poor planning, etc.</li> <li>• Starting the development without a complete plan.</li> <li>• Misunderstanding the requirements and not checking them, at time software developers overlook this step, here requirements are unique and established during custom software development and can permit errors to spread to the end of the process, costing organizations money.</li> <li>• Taking feedback lightly, feedback might come from within the company or from software users, and it's critical to find true flaws</li> </ul>
8. What could go right with this project?	<ul style="list-style-type: none"> <li>• Hiring skilled developers which makes way for a smooth development process.</li> <li>• Proper planning of the project, which ensures that everyone knows exactly what they are responsible for throughout the project.</li> <li>• Having clear communication and understanding of product requirements and vision of the product from the client.</li> </ul>

### **Problem Statement – 3:**

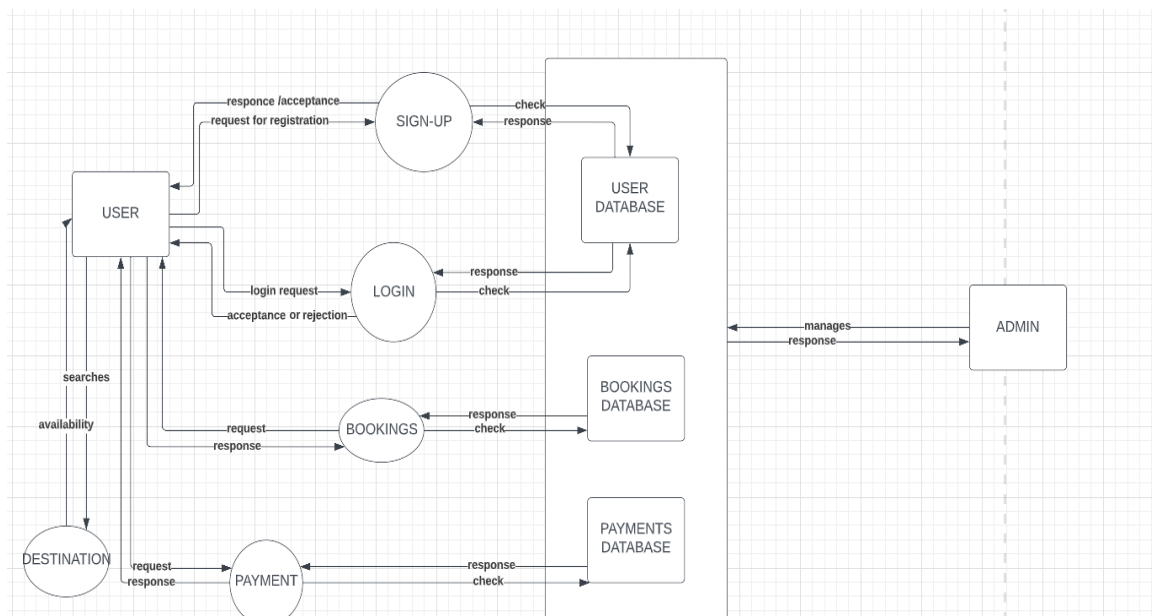
Explore the MakeMyTrip website <https://www.makemytrip.com/>.

Write the minispecs and draw the top level DFD, first level decomposition and second level composition for the MakeMyTrip website

#### **TOP LEVEL DFD :**

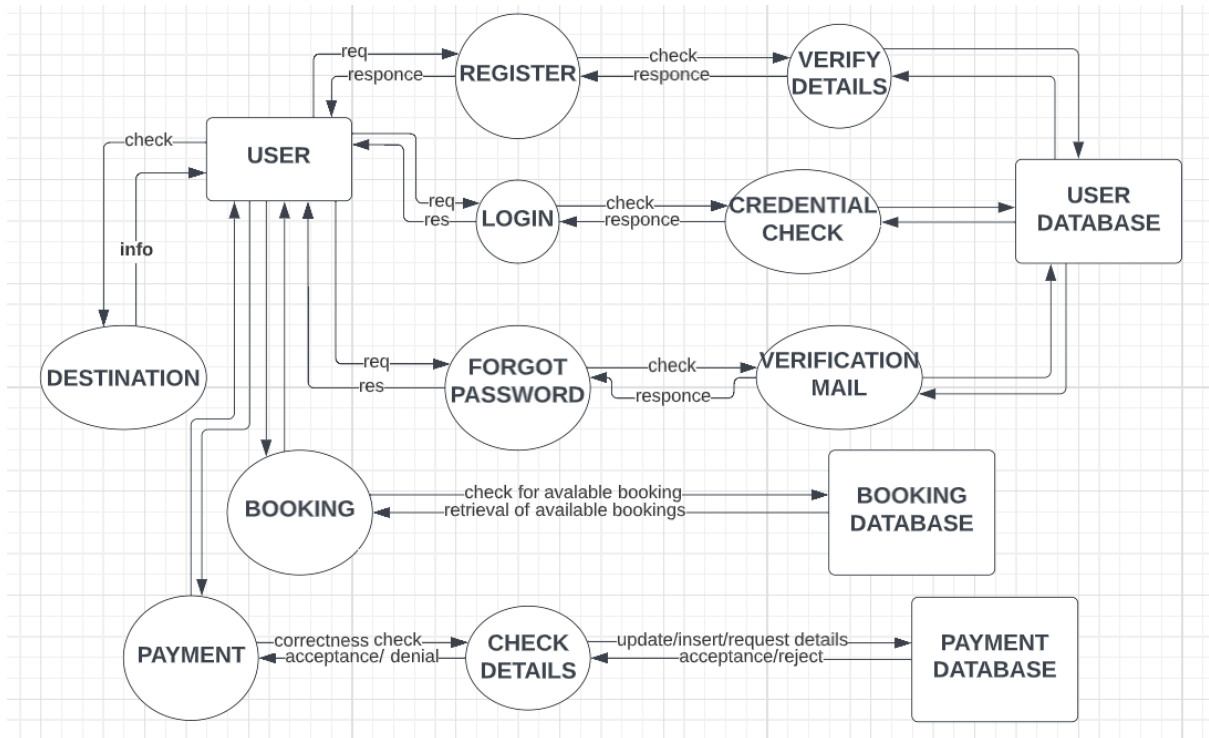


#### **LEVEL 1 DFD :**

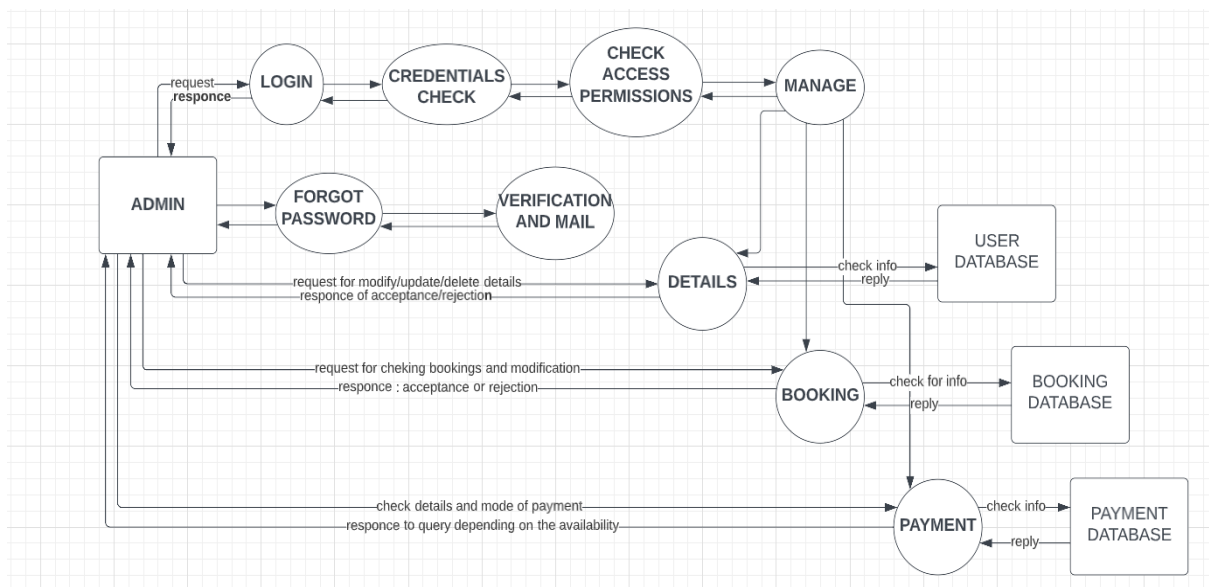


## LEVEL 2 DFD :

### FOR USER



### FOR ADMIN :



## MINISPECS FOR THE DFD MADE :

- IDENTIFICATION :process request for registration of user  
DESCRIPTION :  
type of request  
IF invalid request or details repeat the step  
ELSE update the log/user database with the details of user
- IDENTIFICATION :process request for login of user/admin  
DESCRIPTION :  
type of request  
IF invalid userid or password repeat the step  
IF step is repeated for 3 times terminate transaction  
ELSE valid login
- IDENTIFICATION :process request for change password of user/admin  
DESCRIPTION :  
type of request  
IF invalid details repeat the step  
ELSE send a verification mail to the user according to registered details for updating password
- IDENTIFICATION :process request for check destination of user  
DESCRIPTION :  
type of request  
IF invalid request or details ask the user to enter for proper destination / suggest correct destination

ELSE get the details on availabilities of rooms tickets hotels etc. in the specified destination

- IDENTIFICATION :process request for booking of user

DESCRIPTION :

type of request

IF invalid request for booking for a particular destination reply invalid entry and repeat the step

ELSE display the bookings available and accordingly show the payment details of the bookings available from the database

- IDENTIFICATION :process request for payment by user

DESCRIPTION :

type of request

IF invalid bank details repeat the step

IF step repeats 5 times terminate transaction

ELSE update the payment details to the database and give the user the conformation of successful booking

- IDENTIFICATION :process request for booking of user

DESCRIPTION :

type of request

IF invalid request for booking for a particular destination reply invalid entry and repeat the step

ELSE display the bookings available and accordingly show the payment details of the bookings available from the database

- IDENTIFICATION :process request for viewing/updating details of user by admin

DESCRIPTION :

type of request

IF invalid request or user credentials not present reply saying no entries

ELSE display the details of the user specified by the admin and allow to modify the details or delete the details or update it

- IDENTIFICATION :process request for viewing and managing booking of users

DESCRIPTION :

type of request

IF invalid request for booking for a particular destination reply no bookings exists and repeat the step

ELSE display the bookings made by the users by retrieving the information from the bookings database and allow the modification of these bookings

- IDENTIFICATION :process request for viewing payment details of user by admin

DESCRIPTION :

type of request

IF invalid request then repeat the step saying no payment details found

ELSE display the details of the payment made and the details regarding the payment for reference



