

# **SOFTWARE ENGINEERING**

## **UNIT – 2**

### **LAB TASKS**

#### **TEAM:**

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## Problem Statement–1:

Competitor overview	Competitor 1	Competitor 2	Competitor 3
<b>Company</b>	Algolia	Bloomreach	Coveo
Website	<a href="https://www.algolia.com/">https://www.algolia.com/</a>	<a href="https://www.bloomreach.com/">https://www.bloomreach.com/</a>	<a href="https://www.coveo.com/en">https://www.coveo.com/en</a>
Location	San Francisco, California	Mountain View, California	Quebec City, Quebec, Canada
Revenue	\$75M	\$62.5M	\$110M
Founded	10 October 2012	2009	2005
Employees	600+	250	700+
Mission	The best Search and Discovery Platform for your business	Powerful content, customer engagement, and product discovery offerings to achieve true personalization and drive unparalleled business growth	Deliver the relevant, personalized experiences people expect, with AI
Products	Algolia search and recommend	engagement overview, email marketing, web personalization etc	ecommerce, service and support, website
Services	enterprise search, mobile search, headless ecommerce, voice search	win back campaigns, personalised email campaigns etc	security, technology, analytics
Strengths	It's fast and easy to implement. It has excellent support	Their support team and account managers who we worked with were all fabulous, responsive, and knowledgeable.	Out of the box UI Integration into Salesforce
Weaknesses	Their pricing had some changes which are trickier to estimate	Clients have problem to identify which department's budget to use for analytics services.	Debugging information about failures in connectors

### 1. What could cause a miss in your deadline?

- poor management of time
- Lack of proper planning
- Improper estimation
- Uncommitted stakeholders
- Ineptness with technology
- Shifting project requirements

### 2. What will keep your project on time?

- Reserve Time for Unexpected Issues
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- Break Down the Project into Smaller Tasks
- Review the Project's Progress Frequently

3. What does this project need that you don't have?
  - The human, material and technical resources required to complete the project
4. What do you already have that this project needs?
  - The time needed to complete the project
  - The budget needed to complete the project
5. What are you worried about?
  - If the project will be completed as per the project guidelines
  - If the resources allotted for the project is sufficient
  - If the client will be happy with the deliverables
6. What are you excited about?
  - To learn new things while executing the projects
  - To enhance domain knowledge
  - To gain new experience in various areas
7. What could go wrong with this project?
  - Cannot deliver business objectives and intended business benefits
8. What could go right with this project?
  - The project goes according to project guidelines
  - Tasks are planned properly and divided in an unbiased way among people working on the project
  - The deliverables are delivered on time adhering to the business objectives and intended business benefits

## 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.

Minispecs:

1. Creation of account through the website

Acquire user details like username and password.

Once the account is set up, check for validity of the details entered.

2. Search for travel plans

User enters details of trip - source and destination locations along with the dates and check in times.

User chooses the means of transport that they like.

3. Ticket booking process

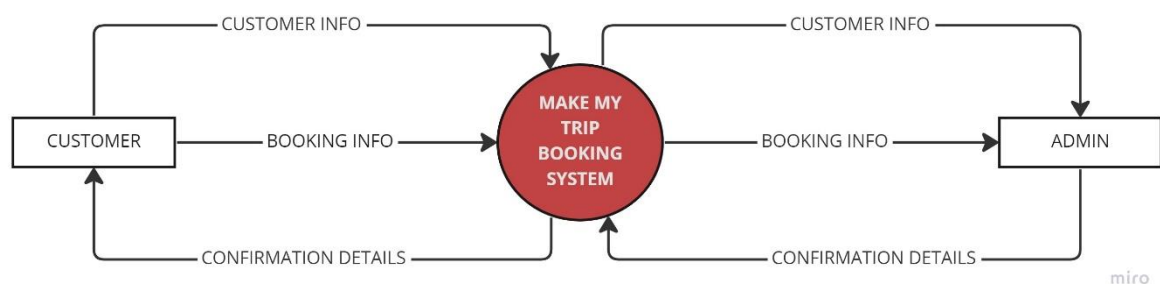
If the chosen dates are available and free, user gets choice of selection

Else they have to change dates or locations.

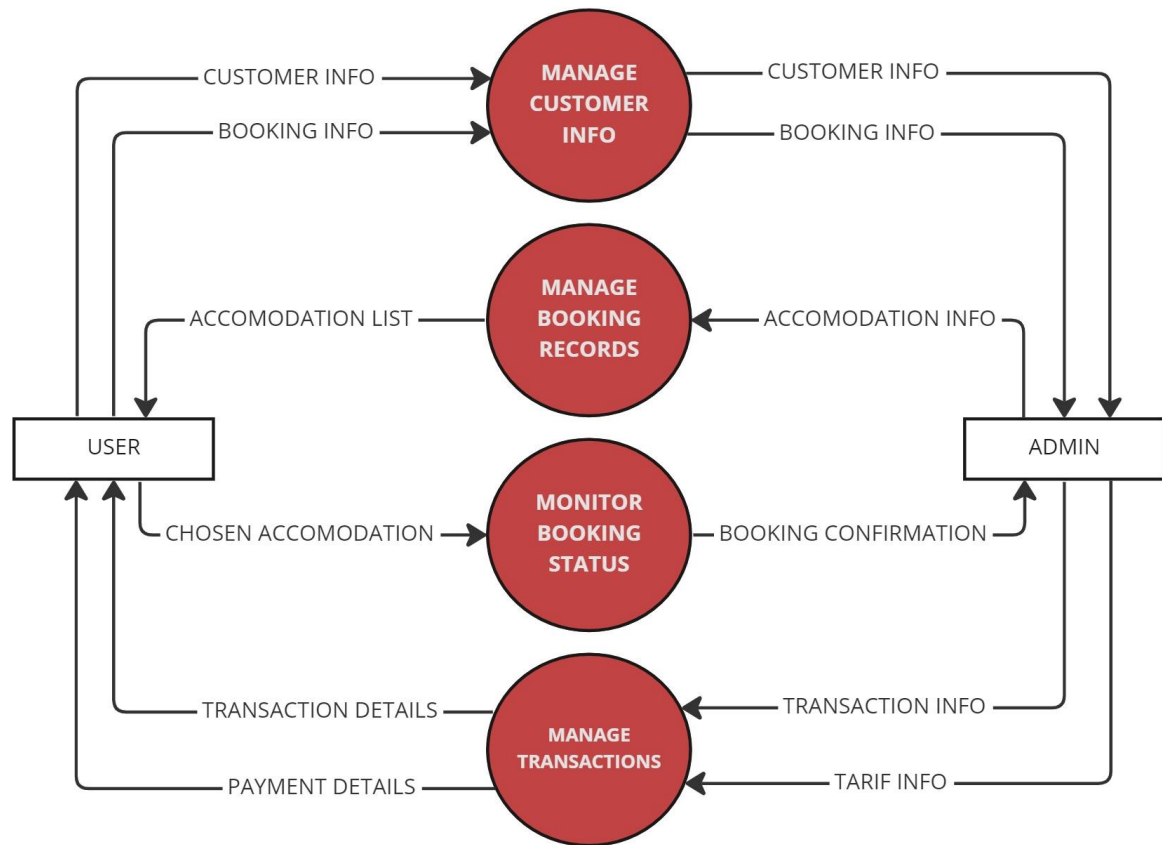
4. Payment gateway

User chooses a mode of payment and transfers the appropriate money.

TOP LEVEL DFD:



FIRST LEVEL DFD:



## SECOND LEVEL DFD:

