



B.TECH COMPUTER SCIENCE
UE20CS303 - SOFTWARE ENGINEERING LAB
SIGNATURE VERIFICATION
CASE STUDY 1
PROBLEM STATEMENTS 1 & 3

Team:

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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.

1.	What could cause a miss in your deadline?	<ul style="list-style-type: none"> ➤ Misplaced priorities ➤ Inconsistency of the requirements ➤ If the planning was done superficially ➤ Each developer should make task estimation and ➤ did not participate in the assessment of tasks ➤ Clarifying the requirements took a lot of the ➤ team's time
2.	What will keep your project on time?	<ul style="list-style-type: none"> ➤ Knowing the strength and weakness of your team ➤ Setting up goals with realistic time lines ➤ Making sure team members understand ➤ schedules and deadlines before launch ➤ Using collaboration tools ➤ Having consistency plans ➤ Documenting the scope of the project before you ➤ start ➤ Time constraints ➤ Building relationship within the team
3.	What do you already have that this project need?	<ul style="list-style-type: none"> ➤ Project objectives ➤ Tasks, dependencies and priorities ➤ Costs and payment details ➤ Project authority ➤ Deliverables and expected outcomes ➤ Resource requirements like facility needs, parts ➤ or equipment
4.	What are you worried about?	<ul style="list-style-type: none"> ➤ Providing regular status updates ➤ Reducing last-mile delivery times ➤ Being open to the return process
5.	What are you excited about?	<ul style="list-style-type: none"> ➤ Ability to make difference to a customer's life ➤ Solving problems and talking to the customer
6.	What could go wrong with this project?	<ul style="list-style-type: none"> ➤ Delivery challenges ➤ Proof of delivery ➤ Privacy and security

7.	What could go right with this project?	<ul style="list-style-type: none"> ➤ Real time order tracking ➤ Optimized routes ➤ Planning
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TOPIC	RISK	SUCCESS
GOALS	Incomplete goals	Proper time and project management completed on time
RESOURCES AND TIME	Overflow of requirements	Good resource management leading to good outcomes
MANAGEMENT	Bad planning of project	Managing project within available resources
TEAM CO-ORDINATION	Lack of communication skills and experience among team members	Proper knowledge of project with experienced team members and manager leads to best outcome of project
PRODUCTIVITY	Poor performance and outdated system	Effectiveness and efficiency

PROBLEM STATEMENT – 3: With respect to the MakeMyTrip provide the following –

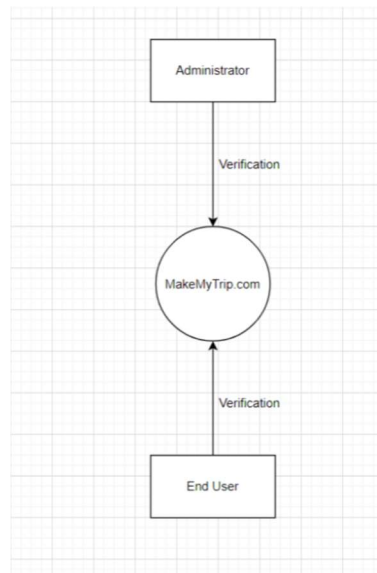
- (a) minispecs
- (b) draw the top level DFD
- (c) draw the first level decomposition
- (d) draw the second level composition

(a)

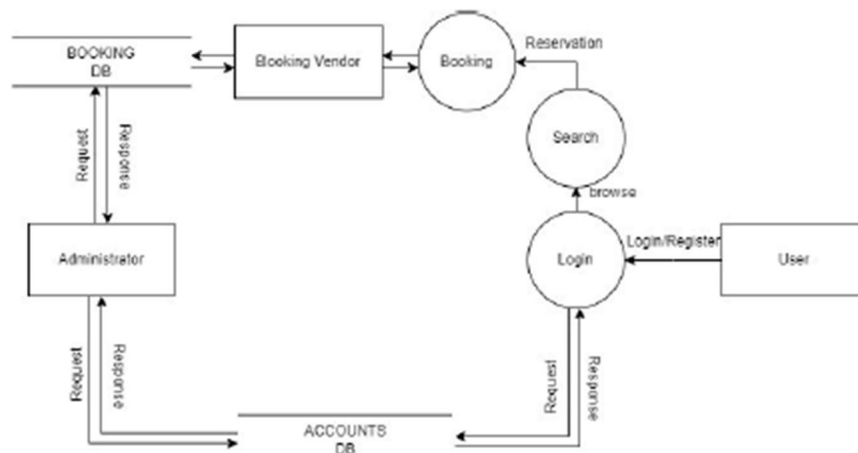
Minispecs

1. Register new users
 - 1.1 enter user details
 - 1.2 set password
2. Login in registered user
 - 2.1 if wrong password try again
 - 2.2 if step two repeats 3 times block the account for 30 minutes
 - 2.3 on succesful login do
 - 2.4 view trip plans
 - 2.5 select a plan
3. Enter user infromation into the database
 - 3.1 log user activity into the database
- 4 Booking a plan
 - 4.1 Make payment
 - 4.2 Print Receipt
 - 4.3 if payment fails terminate the transcation
 - 4.4 if user decides to cancel the booking terminate the booking process
- 5 Log booking details
 - 5.1 log booking id in the database
 - 5.2 log transcation id in the database
 - 5.3 log cancelation id in the database

(b) Zero level Level DFD



(c) First level Level DFD



(d) Second Level DFD

