Practical FileOn

Software Engineering Lab (KCA-352)

Session 2021-22



Department of Computer Applications KIET Group of Institutions

Submitted To:

Dr. Arun Kumar Tripathi Department of Computer Applications KIET Group of Institutions

Submitted By:

Arun Kumar <2000290140027> Mayank Singh <2000290140069> Vishal Sahu <2000290140134> Abhishek Tiwari <2000290140007>



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SOFTWARE ENGINEERING LAB (KCA-352)

MCA-III SEMESTER, 2021-22

PRACTICAL LIST

S.	Program	Date of	Faculty	Remarks
No.		Completion	Signature	
	Prepare an SRS document in line with the IEEE	15-09-2021		
1	recommended standards for the specified Case Study.	18-09-2021		
	(Functional Requirements)			
	Prepare an SRS document in line with the IEEE	22-09-2021		
2	recommended standards for the specified Case Study.	25-09-2021		
	(Non-Functional Requirements.			
	Draw the use case diagram and specify the role of each of	29-09-2021		
3	the actors for the specified Case Study.	06-10-2021		
		09-10-2021		
4	Prepare state the precondition, post condition and function	20-10-2021		
	of each use case for the specified Case Study.			
5	Draw the activity diagram for the specified Case Study.	23-10-2021		
		27-10-2021		
6	Identify the classes. Classify them as weak and strong	30-10-2021		
	classes and draw the class diagram for the specified Case Study.			
		10-11-2021		
7	Draw the sequence diagram for any two scenarios.	13-11-2021		
	Draw the collaboration diagram for the specified Case	17-11-2021		
8	Study.			•
	Draw the state chart diagram for the specified Case Study.	20-11-2021		
9	Draw the state chart diagram for the specified Case Study.	24-11-2021		
10	Draw the component diagram for the specified Case Study.	27-11-2021		
		01-12-2021		
	Described and the second of th	04-12-2021		
11	Draw the deployment diagram for the specified Case Study.	08-12-2021		
	Design a test suite for the specified Case Study.	11-12-2021		
12	Design a test suite for the specified Case Study.	15-12-2021		

Lab Faculties:

Dr. Arun K. Tripathi, Dr. Amit Kumar

Dr. Ajay K Shrivastava **Head-CA**

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1. Introduction

People need medicine when they become sick and unable to enjoy their normal life. People have to go in the pharmacy for buying medicine. But sometimes they can't get the proper medicine due to the lack of easy availability. So, the patients have to search for the desired medicine in every medicine shop which wastes their time and energy.

Sometimes, in emergency cases, the condition of patients become very serious without taking medicine at the right time.

Medes is an online medicine delivery application in which customers can upload their description in the medical store of 5 to 10 km area of their location, medicine medical shop keeper will deliver medicine within one hour if that medicine is not in their shop. He will send the acknowledgment to the customer and user can place order at other medical shop this application local vendor or medical shopkeeper will have to first register himself for medicine delivery, customer can also give feedback and compliance of delivery service. The user interface of this application is very simple and user friendly application

1.1 Purpose

This document is meant to set forth the features and requirements of Online Medicine Delivery Platform in a clear and concise way, so as to serve as a guide to the developers on one hand and a software validation document for the perspective client on the other. This MEDES Platform will enable customers and dealers to browse through the available medicines and enable you to track all the products of the medical shop.

The main objective is to manage the details of customer, vendor, medicine, stock, order and sell the medicine in online. In this technological era, everything becomes very faster. People love to enjoy a comfortable life. This online medicine shop will bring many facilities to our life. The seller can easily sell the medicine and preserves the records and documents of the medicine. And the profit will be high also. That's why, Online Medicine Shop is developed where the management of the medicine shop is web based through which one can manage a medicine shop easily from anywhere at anytime.

1.2 Document Conventions

a) SRS: System Requirement Specifications

a) GUI: Graphical User Interface

b) UC: Use Case

c) Approx.: Approximately

1.3 Intended Audience and Reading Suggestions

The intended audience of this SRS:

<u>Developers</u>: Project developers can go through this document and understand the requirements presented by the client for the development of the product and start to work on it accordingly. If the developer wants to change, modify or add new requirements/features into the existing system, he/she must first consult this document, update the requirements in an appropriate manner and pass the information correctly to the other phases of the development process.

Marketing Staff: Marketing staff can read this SRS to develop accurate and effective pitches.

<u>Users:</u> Users, mainly students, can refer this document to get a better idea of the functioning of the MEDES and determine whether the requirements listed here have been satisfactorily implemented.

<u>Testers</u>: Testers are required to go through the requirements very carefully to design test cases and test the end product to ensure that the requirements presented by the client have been implemented and the software is working efficiently.

1.4 Product Scope

As this is generic software it can be used by a wide variety of outlets (Retailers) to automate the process of manually maintaining the records related to the subject of maintaining the stock and cash flows.

This project is basically updating the manual chemist inventory System to Automated inventory system, so that organization can manage their record in efficient and organized form. It provides the facility to the user that the user can order medicine at any time and from any medical store near his home and he will get the medicine within an hour. This application helps those customers who cannot walk for long Or is not in a condition to walk and Those who does not have time to bring medicine from medical shop.

1.5 References

IEEE Software Requirement Specification standard format

2. Overall Description

2.1 Product Perspective

MEDES is a new project which is not associated to any other already Pharmacy websites in any way.

2.2 Product Functions

- PMS enables users to perform following functions:
 - 1. Register
 - 2. Login
 - 3. Browse through the website and search nearest medical shop
 - 4. Customer can give the review on the service after signing in to the website.
 - 5. Customer can see the offers on the medicine and can buy the medicine at the discount price
 - 6. Medicines can be exchanged, if the medicines are bought from this shop are intact.
 - 7. Customer can buy more than one products at a time.

- It will enable admins to perform:
 - 1. Keep records of Medical Store
 - 2. Keep records of Positive and Negative review of the Medical Shop Given by user
 - 3. Add/delete/update data Medical Shop Record
- It will enable Medical Shopkeeper to perform:
 - 1. SAdmin can assign deliveryman to deliver the medicines to the customer.
 - 2. Deliveryman details can be managed by the Sadmin.
 - 3. SAdmin can add, update, delete the details of the medicine
 - 4. SAdmin can assign deliveryman to deliver the medicines to the customer.
 - 5. SAdmin can announce offers of the medicine in this online medicine shop.

2.3 User Classes and Characteristics

2.4 Operating Environment

- Web browser: Any web browser
- Operating system: Windows 7 and above, ios12 and above, android 6.0 and above
- Internet speed: minimum speed of 2mbps
- MEDES is free to browse and can be accessed by anyone

2.5 Design and Implementation Constraints

- The user must have individual ID for creating an account
- MEDES shall be developed using MERN(MongoDB, Express, React, Node JS) on Visual Studio Code and MongoDB for database.

2.6 User Documentation

2.7 Assumptions and Dependencies

- Database used for MEDES is MongoDB
- Operation of the MEDES depends on the number of concurrent users Buy, Return, and add the medicine on card
- Each user must have a User ID and password
- There must be an internet connection
- There should only be one account per email address

3. External Interface Requirements

3.1 User Interfaces

<u>Login Screen</u>: This feature is inbuilt in the software for the verification of authenticated user over the unregistered ones.

<u>Administrator Account</u>: This enables the user to perform the admin level activities like adding, removing and updating data of medical shopes.

<u>SAdmin Account</u>: This enables the SAdmin to add, update, delete the details of the medicine view Inventory and view profile and assign deliveryman to deliver the medicines to the customer.

3.2 Hardware Interfaces

3.3 Software Interfaces

MEDES is a multi-user environment, it uses MERN for the web pages and MongoDB as the backend application tool.

3.4 Communications Interfaces

User can communicate with the admin via email provided on the website and hence uses simple mail transfer protocol (SMTP).

4. System Features

4.1 Login/Signup Page

4.1.1 Description and Priority

Provides the user with a page to login or register for the MEDES

Priority = 10

4.1.2 Stimulus/Response Sequences

Stimulus: User clicks on Login Link. Response: Login Page is displayed

Stimulus: User Enters Username and Password

Response: Username and Password are validated from MongoDB

Database.

Stimulus: User Clicks on Login Button

Response: Home Page is displayed if Username and Password is correct else Error Message is displayed and the user is asked to enter

username and password again.

Stimulus: User clicks on register Link.

Response: Register(signup) page is displayed

Stimulus: User enters his/her details and clicks on register button

Response: User's data gets saved; account is created and home page is displayed

4.1.3 Functional Requirements

REQ-1: The user should be able to view and click on login link

REQ-2: The user should be able to enter and validate the username and

Password.

REQ-3: There should be only one account per email else and error pop-up should appear.

4.2 View Inventory

4.2.1 Description and Priority

Provides the user with a page to view different medical shop with an option

to

search nearest medical shopes

Priority = 9

4.2.2 Stimulus/Response Sequences

Stimulus: User clicks on

Response: Medical Shop Page is displayed

Stimulus: User clicks on particular page

Response: page and its description are displayed.

4.2.3 Functional Requirements

REQ-1: The user should be able to view and click on links.

REQ-2: The user should be able to update and delete for a particular product.

REQ-3: The user should be able to view product details by clicking on a particular product.

REQ-1: The user should be able to view and answer the questions.

4.3 View User Profile

4.4.1 Description and Priority

Provides the user with a page to view his/her profile

Priority = 9

4.4.2 Stimulus/Response Sequences

Stimulus: User clicks on Settings -> User Profile

Response: User profile is displayed with user details.

4.4.3 Functional Requirements

REQ-1: The user should be able to click and view his/her profile.

REQ-2: The user should be able to see the list of current and old inventory

Items orders.

4.4 Logout Page

4.5.1 Description and Priority

Provides the user with a logout option.

Priority = 10

4.5.2 Stimulus/Response Sequences

Stimulus: User clicks on Logout link

Response: User is logged out and index page is displayed.

4.5.3 Functional Requirements

REQ-1: The user should be able to logout from the system.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

PE-1: Responses to activities should not take very long time onto the screen (approx. 2-5s, depending upon user's internet speed).

PE-2: The system should display confirmation message to the user very quickly after the user submits information to the system (depending upon user's internet speed).

PE-3: MEDES should work fine even with a number of users using concurrently.

5.2 Safety Requirements

SR-1: Consistency: Checking the fact that all clients must be attached to one server, so there is an appropriate control of the information.

SR-2: Users' data should be kept confidential.

5.3 Software Quality Attributes

SQA-1: MEDES should be available to the users all the time.

SQA-2: The code should be neat and it should contain all the necessary comments for the ease of maintenance.

5.4 Business Rules

- Return Policy
- Certified Medical Store
- Original Medicines

6. Other Requirements

All the requirements have been specified.

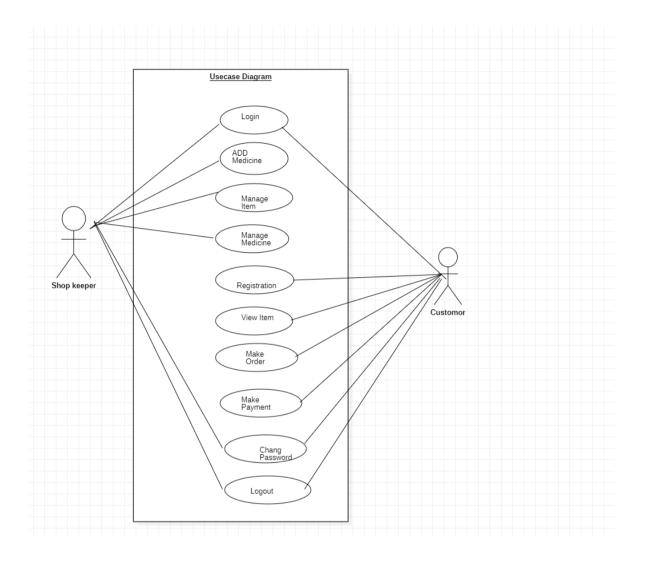
Appendix A: Glossary

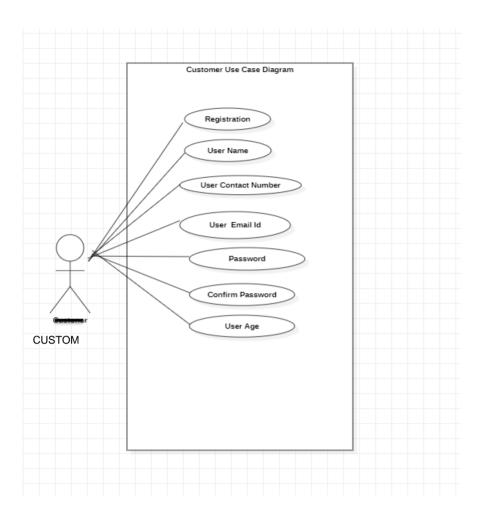
Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS

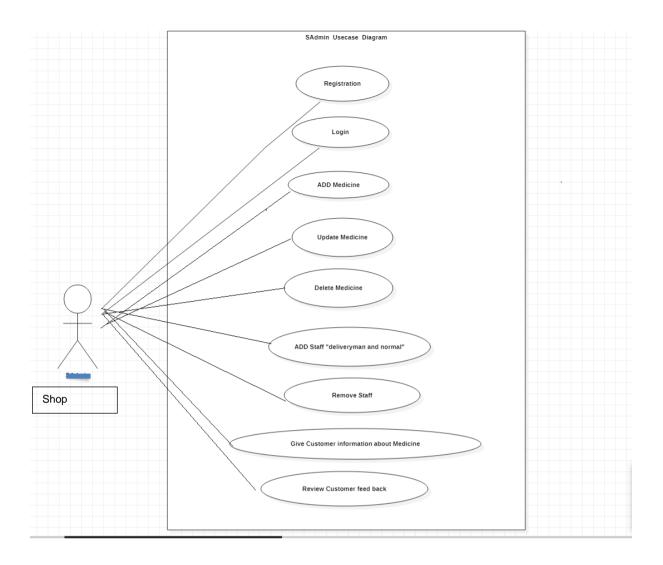
Appendix B: Analysis Models

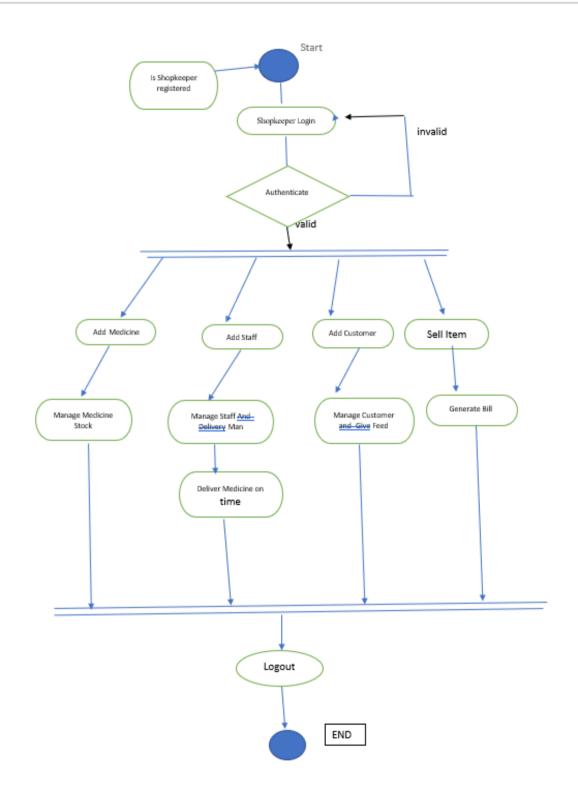
Appendix C: To Be Determined List

USE CASE DIAGRAME

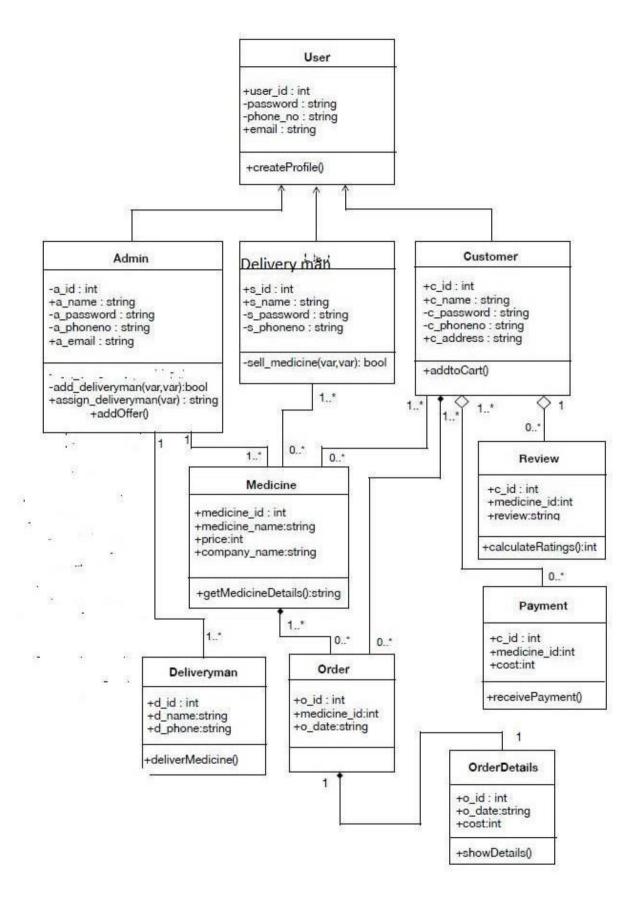




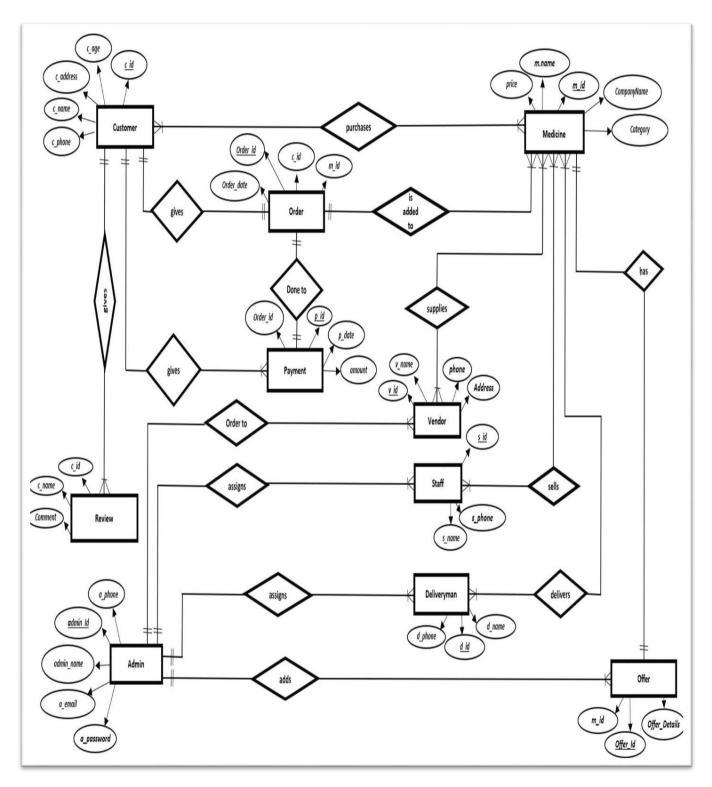




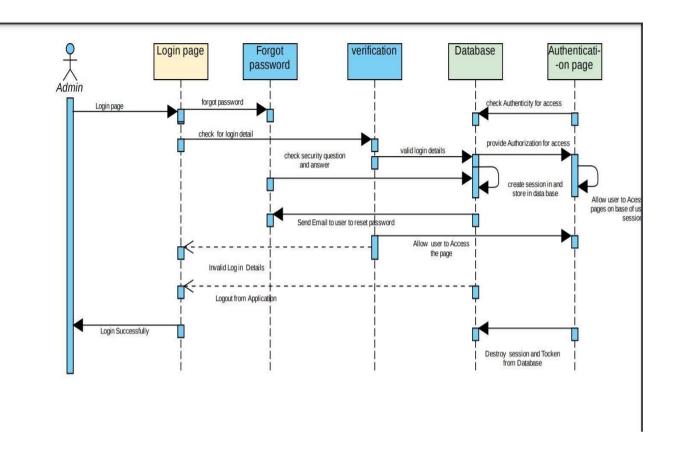
ACTIVITY DIAGRAM



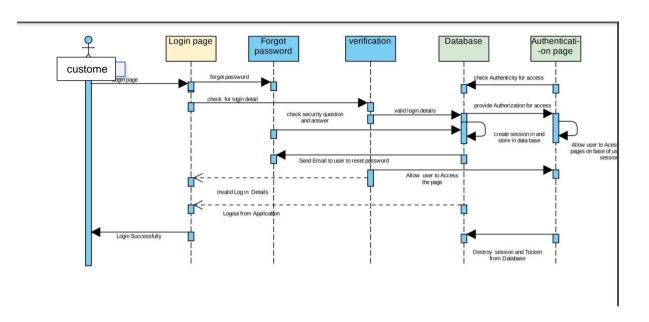
CLASS DIAGRAME



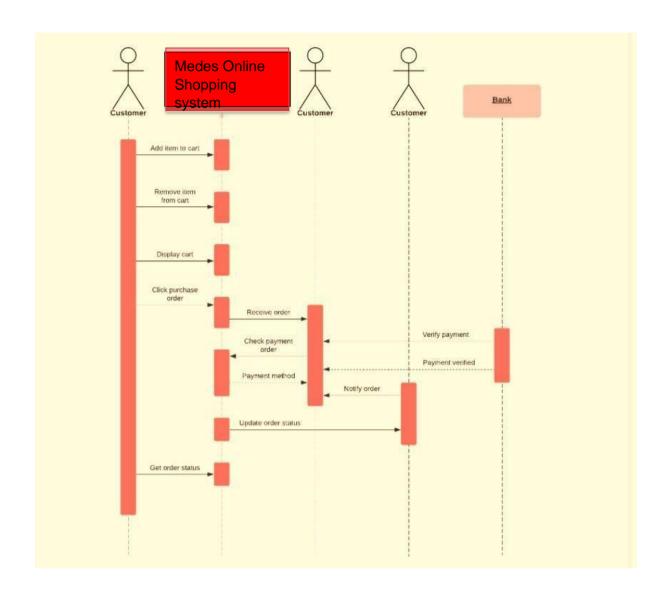
ER DIAGRAM



SEQUENCE DIAGRAME



SEQUENCE DIAGRAM 2



SEQUENCE DIAGRAME 3

Project Name: MEDES Project Manager: ARUN

KUMAR

Execution Date: & By 10/01/2022 by Abhshek

TestCaseId	Component	Priority	Description/Test Summary
1	.card number	2	email id check
	cara namber		
Enter Invalid mail id	Login_Page	P0	Verify that user has input a valid mail Id Example: 123@123.123, should be considered as invalid
Gender and City	Contact Us	P1	Gender and City Name can't be empty
Adding New Inventory	Add_Inventory_Page	P2	Check whether the quantity entered by user is not less than equals to zero
Adding Inventory Price CODE	Add_Inventory_Page P3 Enter A valid POST For Delivery Page	Г Р4	Check whether the price entered by user is not less than or equals to zero Postal Code can not be empty our alphabet
Card Number	Buy Product	P5	Card Number can't be empty and and not Alphabet
CVC	Buy Product	P6	CVC can't be empty and not Alphabet
MM/YY	Buy Product	P7	MM/YY can't be empty and not alphabet

Project ID: GC2

QA Manager:VISHAL SAHU AND Mayank Singh

Test C	ase Template		
Pre-requisites	Test Steps	Expected Result	Actual Result
Valid Email ID	2	valid Email	Passed
	1. Enter your Email ID	The email ID	The email ID
	,	that you have	that you have
Valid Email ID		entered	entered
	1. select only one	Email Id	Email ID and
	Gender	,Gender and	Gender and city
Gender =male	2. Enter your city	City Name	name can't be
/female	3. Enter Your Emai Id	can'tbe empty	empty
	1. Enter Inventory	can't be	ty Inventory quantity can't be
	Name	carribe	carribe
	Enter Inventory Details to	less than or equ	al less than or equal
Qty>0	Enter Inventory Quantity	to zero	zero
	1. Enter Inventory Name	Inventory Price	Inventory price
	2. Enter Inventory Details	can't be less	can't be less than
Price>	3. Enter Inventory	than or equals	or equals to zero
0	Quantity 4. Enter Inventory Price	to zero	
	Lines inventory i nee	Post Code Can r	not Post Code can't be
	ber1. Enter a Valid Postal	be	empty
code		empty	.16 1
			n't card number can't
Card Number-16 nu	mber.1 Enter A valid Card Number	be empty and alphabet	be empty and
Card Number = 10 Hui	mber. I Effet A Valid Card Number	CVC can't be	alphabet
		empty and	S.P.10000
CVC number=4	.1 Enter A valid CVC Number	albhabet	CVC can't be
		MM/YY Can't	empty and
		be empty and	alphabet
MM=2 no./YY=4 no. card	Enter a valid month and year of	alphabet	MM/YY can't be
caru			empty and
			alphabet
			•

Status	Test Executed By
	un kumar
Passed	test Executed By Ar
Pass	Team
1 033	
Pass	Team
Pass	Team
Pass	Tea
Pass	m
	Tea
	m
	····
Pass	Team

PROJECT SCREENSHOT:

