



## **School of Computing**

**SRM IST, Kattankulathur – 603 203**

**Course Code: 18CSC206J**

**Course Name: Software Engineering and Project Management**

<b>Experiment No</b>	3
<b>Title of Experiment</b>	Road Rescue
<b>Name of the candidate</b>	Chirag Thakur
<b>Team Members</b>	S. RAHUL (RA2111003010099) CHIRAG THAKUR (RA2111003010071)
<b>Register Number</b>	RA2111003010071
<b>Date of Experiment</b>	

## **Mark Split Up**

<b>S.No</b>	<b>Description</b>	<b>Maximum Mark</b>	<b>Mark Obtained</b>
1	Exercise	5	
2	Viva	5	
<b>Total</b>		<b>10</b>	

**Staff Signature with date**

## Aim

To identify the system, functional and non-functional requirements for the project.

## Team Members:

S No	Register No	Name	Role
1	RA2111003010099	S Rahul	Rep/Member
2	RA2111003010071	Chirag Thakur	Member

## Project Title: Road Rescue

### System Requirements:

- Windows, macOS, Linux.
- 4GB or Higher Ram.
- Android 6 and above.

### Functional Requirements:

- User registration: Users should be able to create an account on the platform, providing their name, contact information, and payment details.
- Service provider registration: The service provider should be able to register on the platform, providing their name, contact information, and details of the services they offer.
- Service requests: Users should be able to request road side assistance services through the platform, specifying their location, the type of vehicle they have, and the service required.
- Service matching: The platform should be able to match service requests with available mechanics in the user's location who are capable of providing the required service.
- Real-time communication: The platform should provide a mechanism for real-time communication between users and mechanics, enabling them to exchange information about the service request and coordinate the service.
- Service tracking: Users should be able to track the status of their service request in realtime, providing updates on the estimated time of arrival and the progress of the service.
- Service rating: Users should be able to rate and provide feedback on the service provided by the mechanic, which can be used to improve the quality of service.

**Non-Functional Requirements:**

- Performance: The platform should be designed to handle a large volume of requests, providing fast response times and minimal downtime.
- Security: The platform should be designed with security in mind, using encryption and other security measures to protect user and mechanic data, as well as payment information.
- Reliability: The platform should be designed to be reliable, with robust error handling and fault tolerance, and a backup and recovery plan in place to minimize downtime in the event of a system failure.
- Scalability: The platform should be designed to be scalable, able to handle a growing number of users and mechanics as the platform expands.
- Compatibility: The platform should be designed to be compatible with a wide range of web browsers, operating systems, and devices, ensuring that it can be used by the broadest possible audience.
- Maintainability: The platform should be designed to be maintainable, with clean and well-organized code, good documentation, and a clear separation of concerns.

**Result:**

Thus, the requirements were identified and accordingly described.