



**School of Computing**  
**SRMIST, Kattankulathur**  
**603203**

**Course Code: 18CSC206J**

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

<b>Experiment No</b>	3
<b>Title of Experiment</b>	System, Functional and Non-Functional Requirements of the Project
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<b>Date of Experiment</b>	07-02-2023

**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	RA2111028010094	Abdul Ahad	Rep/ Member
2	RA2111028010080	Disha Yadav	Member
3	RA2111028010088	Shitij Chauhan	Member
4	RA2111028010089	V. Vishal	Member

**Project Title:** **DASV LIFTERS: You dream high, we lift high**

## System Requirements:

### 1. Hardware

#### a. Minimum Requirement:

OS: **Windows 8.1 (64 Bit)**

Processor: **Intel Core 2 Quad CPU Q6600 @ 2.40GHz (4 CPUs)**

RAM: **4GB**

HDD Space: **10 GB**

#### b. Recommended Requirement:

OS: **Windows 10 (64 Bit)**

Processor: **Intel Core i5 3470 @ 3.2GHZ (4 CPUs)**

RAM: **8GB**

HDD Space: **20 GB**

### 2. Design

Architecture: **Autocad**

### 3. Software

UI/ UX: **Figma, Illustrator**

Coding: **Python, C++**

Front-end: **Github, JQuery, Visual Studio Code**

Back-end: **MongoDb, Mysql**

## Functional Requirements

- The elevator needs to be able to go from one floor to another without having to stop.
- Operational zones of the elevator system must be defined as the system has multiple elevators and multiple floors. Zones are defined as a set of floors that are serviced by a particular elevator.
- Defining operational zones will help in reducing the number of stops made by the elevator when it comes to larger buildings with high number of floors.
- Minimum power consumption by the elevator system is also desired as minimum power consumption means less electricity bill.
- The elevator car can have 3 stages:
  - a. Moving up.
  - b. Moving down.
  - c. Being idle.

## Non-Functional Requirements

- Non-functional requirements described the quality of the service that the system must offer. For the elevator system, the most important non-functional requirement include performance, reliability, security and emergency handling.
- **Performance:** The elevator system must be able to handle large number of request from users and move people from one floor to another in a given time.
- **Reliability:** The system is said to be reliable if it is able to handle a large number of request from user so that it can perform its required functions under stated conditions for a specified period of time.
- **Security:** The data that is needed to be protected in the elevator system includes the users information and the elevators information. The data should be protected from unauthorized access.
- **Emergency Handling:** It is the ability of the system to handle emergency situation. The elevator system is said to be able to handle emergency situation if it is able to handle a critical situation like a fire or a power outage and transport all the people to the nearest exit.

## Result

Thus, the requirements were identified and accordingly described.