School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	1
Title of Experiment	To identify the Software Project, Create Business Case, Arrive at a Problem Statement
Name of the candidate	Abdul Ahad
Team Members	
Register Number	RA2111028010094
Date of Experiment	23-01-2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
	Total	**10**	

Staff Signature with date

Aim

      To Frame a project team, analyze and identify a Software project. To create a business case and Arrive at a Problem Statement for the <title of the project>

Team Members:

S. No	Register No	Name	Role
1	RA2111028010094	Abdul Ahad	**Lead/Rep**
2	RA2111028010080	Disha Yadav	**Member**
3	RA2111028010088	Shitij Chauhan	**Member**
4	RA2111028010089	Vishal Vijay Anand	**Member**

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

Problem Statement:

      What's tiring? The busy elevators on a heavy work load day. The elevators by DASV lifters build up a system that helps manage and control the movement of elevators up and down of the building. Over the health crisis around the globe, it's not affordable to push the elevators button which is touched by thousands of peoples every day, the system features the auto detected entry and exit gates, automated weight detection and space tracking, for the easy convenience amidst integration with proper ventilation it got special enhanced security attributes for those who find it difficult being in the elevators and other cases of power failure. The system also includes real-time monitoring for people count, as well as the ability to direct the weight over the floor for proper transmission and movement of the elevator. In case of emergency, system provides the emergent elevators rescue system and natural calamities resistance for the worst cases.

The goal of such a system is to increase efficiency and convenience for each and every one, considering the best security and safety possible.

Business Case: (Enclosed)

ONE PAGE BUSINESS CASE TEMPLATE

DATE	23-01-2023
SUBMITTED BY	Abdul Ahad (RA2111028010094)
TITLE / ROLE	Lead/Rep

THE PROJECT
In bullet points, describe the problem this project aims to solve or the opportunity it aims to develop.

- The idea behind the project aids the proper functioning of the elevators there by proving to be a great contribution to the process of time saving.
- It aims to ease the convenience of people inside the elevators.
- It would be easy to reduce a lot of rush and long waiting lines near the elevator area.
- Increase the safety in the elevator.
- Feature facilitates to keep a check of the availability of space along with keeping a track of the max weight with extra concern given to the suitable ventilation.

THE HISTORY
In bullet points, describe the current situation.

- No emergency supports provided in majority of the elevators earlier.
- Lift operations have been equipped with obsolete technology which gives unsatisfactory and time taking results.
- The current lifts have no health monitoring facilities with inadequate ventilation outlets.
- The residing lift management system offers normalized processing and no special regards to the floors there are used frequently in peak hours thus being time consuming.
- The absence of space and max weight availability alerts being the most prominent cause of causing problems to individuals who feel claustrophobic.

LIMITATIONS
List what could prevent the success of the project, such as the need for expensive equipment, bad weather, lack of special training, etc.

- The proposed lift management system offers high initial cost.
- The elevators management system requires regular maintenance and guides to help people know the special facilities offered and to avail the benefits.
- Frequent maintenance cost and experts required to insure the smooth working of the system.

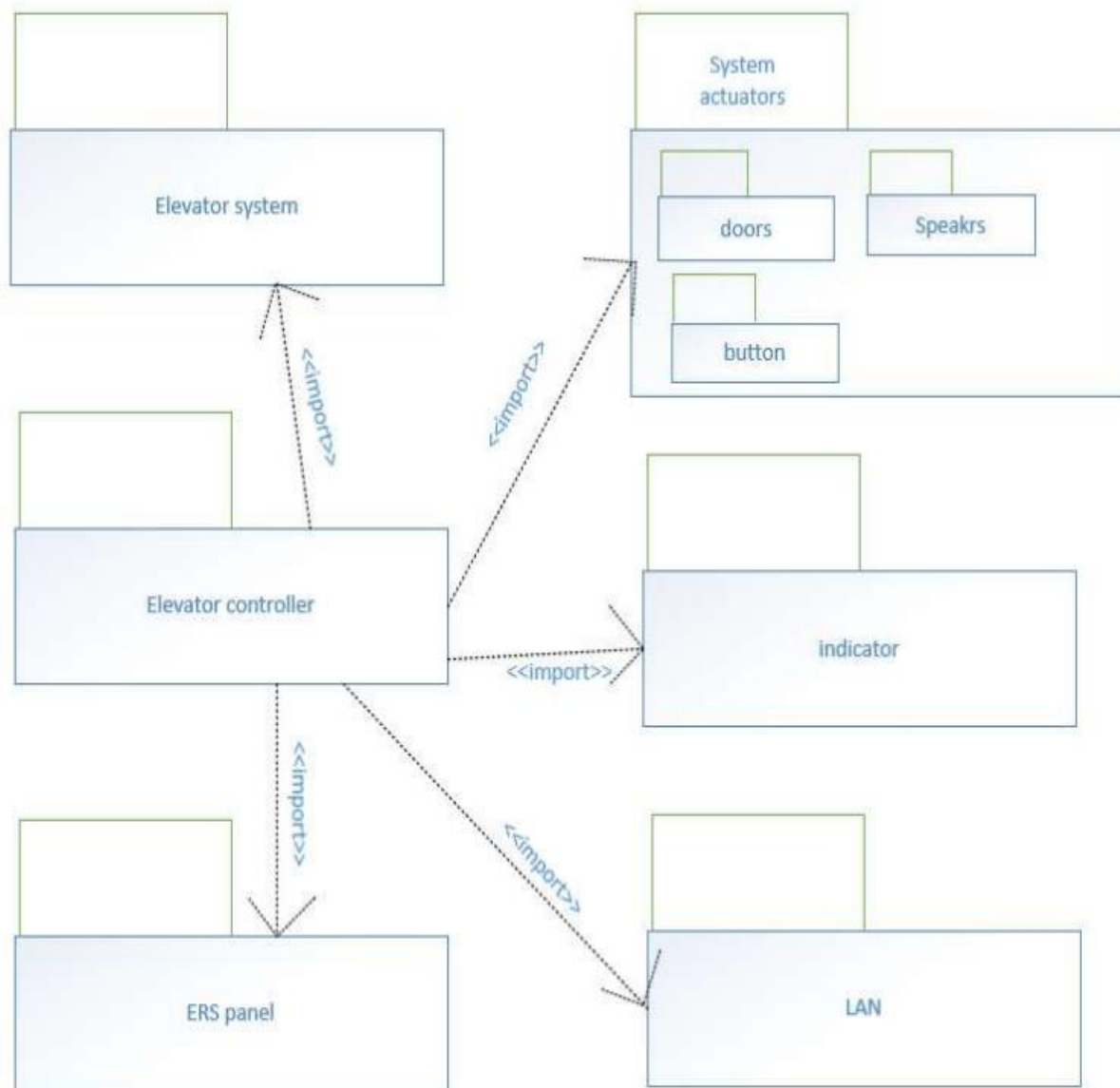**APPROACH**
List what is needed to complete the project.

- Fluent flow of the elevators includes proper engine mechanics enhanced with the latest work frame.
- Auto cleansing access button attached after every stroke of the operations in the elevators.
- Automated entry and exit through the gates of the elevators.
- Automated weight detection and space tracking, symbolising the safety precautions and weight distribution.
- Attached vents for proper supply of oxygen in the lift.
- Elevator rescue system against the power cut, to reserve anyone at particular floor.
- Power backup for enhancing the rescue system.
- Heavy and defenced Layers around the sides, against natural calamities.
- Proper and affordable budget plan and compromise according to the needs.
- All managed through a backend software at once.

BENEFITS
In bullet points, list the benefits that this project will bring to the organization.

- **Increased efficiency:** The proposed lift management system help increase effectiveness and fasten the movement of the elevators within the building.

- **Cost effective**: In spite of various features like reasonable size of cabin, hydraulic process-based lift, Automatic-powered doors, modified level of automation and overall travel distance the proposed life management system is Surprisingly cost effective that makes it a best fit for both personal and commercial usage.

- **Enhanced safety**: The cabin finishes can be customized to fit personal or building specifications with full safety. Different finishes will have different costs, so each choice will influence the final price, nevertheless the proposed system pays well in effectiveness and budget management all equipped with the best safety features for the usage.

- **Real-time customer service:** In case of any faults and technical issues, the recovery is assisted the best way possible with 24*7 customer support available for the best consultation with the smartest of the teams.

- **Smart Detection:** The automated weight detection and space tracking lets us know how much is too much inside the elevator and allocate the proper area wherever the weight is distributed for the easy movement of the elevator.

BLOCK DIGRAM

Result

Thus, the project team formed, the project is described, the business case was prepared and the problem statement was arrived.