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	KUMARI HARSHITA
Team Members	Bhanu Prakash , Kumari Harshita,Mahesh Reddy, Nandavardhan R
Register Number	RA2111028010060
Date of Experiment	30-1-2023

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	RA2111028010043	NANDAVARDHAN R	Lead/Rep
2	RA2111028010041	BHANU PRAKASH	Member
3	RA2111028010056	MAHESH REDDY	Member
4	RA2111028010060	HARSHITA	Member

Project Title: Your energy Our solution

Project Description

We aim to solve SDG goals 7(Affordable and Clean Energy), 9(Industry, Innovation and Infrastructure), 11(Sustainable cities and Communities) by means of providing a dashboard and necessary infrastructure for monitoring and predicting renewable energy output.

Business Case

<Incorporate the Business Case template>

Result

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

ONE PAGE BUSINESS CASE TEMPLATE

DATE	30/01/2023
SUBMITTED BY	Kumari Harshita
TITLE / ROLE	Member

LOG

THE PROJECT

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

Our project "Your energy Our solution" is a solution to monitor and predict renewable energy output, which will help plan for future energy demands which will also ease the strain on the power grid.

THE HISTORY

In bullet points, describe the current situation.

- Renewable energy has been rapidly growing in recent years and is increasingly seen as a key solution to global energy and environmental challenges.
- such as wind, solar, hydro and bioenergy provide over 70% of the world's electricity generation.
- At present renewable energy is monitored using legacy software which is difficult to understand and requires special training to use.
- Also every wind farm or solar farm uses their own proprietary software which inhibits collaboration.

LIMITATIONS

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

- performance issues with new technologies.
- implementing the hardware to measure the output can prove challenging.
- Also storing the vast amount of data produced will be difficult.

APPROACH

List what is needed to complete the project.

- Use a cloud service for database
- implement necessary schemas for the DB
- Procure smart electrical meters to measure output of a windmill or a solar panel
- store the data from the smart electrical meter in the DB
- Design necessary UI/UX
- Implement a prediction model to predict future output
- Integrate predictions with UI/UX

BENEFITS

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

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- Ease of access of data
- Ability to optimize energy usage
- Ability to plan ahead
- Can use heuristic approach to predict when breakdowns can happen