**Project Management System**

# **1: Motivation / Challenges**

Software is an essential part of life in the modern world. A lot of people work in the field of software development striving to solve problems or make work easier. This has led to existence of complex/sophisticated pieces of software which pose a challenge of understanding how they work. Software developers often move from projects to projects or from companies to companies and are required to get in a team and continue working. Having no prior knowledge of the existing project, new developers have to spend a lot of time and resources trying to wrap their head around the project for them to be able to contribute to the project

The learning period is often lengthened by the scattered sources of information like UML diagrams, ER diagrams and project documentations. To solve this kind of tedious work, there is a need for a platform where a project’s information can be bundled together to present a more finished product that presents all needed information about a project. This way a developer could get up to speed by viewing items like

* Database tables and how they relate to each other
* API endpoints and the description of what they do
* Classes/Components used in code for both frontend and backend
* Any notes about the project written by team members

# **2: Requirements**

## **2.1: Essential Requirements**

1. To create teams
2. To create a project
3. To record database information
4. To record API endpoints
5. To record classes/components used in code for both frontend and backed
6. To add notes about the project organized in topics and subtopics
7. To allow editing of project’s information
8. To present project’s information

## **2.2: Recommended Requirements**

1. To allow chats among team members
2. To define roles on what operations different types of users can do in the project

## **2.3: Optional Requirements**

1. To present project information using diagrams drawn from entered data