I.   **PROJECT REPORT**

Project Title - Sociogram (Web Application)

Team Name – Code6

Group Members -

1. Venkata Rajashekar Reddy Chintala

2. Raja Srinivas Nelluri

3. Satish Thammaneni

4. Sai Karthik koncherlakota

5. Sathwik Gaddi

6. Sri Snigdha kotharu

7. Tanvi Thirunathan

8. Putta Ramya Priya

II.   <u>Project Description</u>

It is a user-friendly web application which helps users to explore the social world with just a single sign up. It is flexible enough for users to create/edit/manage their own individual accounts. User can find friends based on similar interests, which means that the user gets to update/edit their interests/hobbies in their profile information such that they can connect to other users with similar diversion. This helps users to widen their social circle and will help them explore people from different cultures as well.

Communication acts a bridge that is meant for the connection and collaboration that happens between users. They can either message their friends or can make an audio call with a strong internet connectivity.

This website acts as a platform to share their ideas/articles/ideologies via their personal accounts. People who follow or are friends with that particular user will be able to view and react to the posts. User can make use of an adjustable feature wherein they can add the privacy settings to each of the posts they upload either to make it private (share it with only selected people/friends) or can make it public such that all of the friends in the list can view it.

Discussion Forums is an open page which is accessible to all the users who are signed up to this site. When a public opinion/help is required, the users can post in their queries or can answer to the already existing/new posts. In addition to it, users get to vote either thumbs up or thumbs down to the answered queries, which in turn helps other users with similar doubt to pick a solution that has the highest votes (which makes the solution/answer more reliable).

Users can look for and can book the tickets for ongoing or upcoming events/movies nearby as individual or group booking. Payments to the booked tickets will be made via online payment methods and the user who have booked the ticket will receive the updates and event reminders via registered email id.

III. Development Environment

UI Design and Development

We are using **HTML** to define the basic structure for the application. To add in custom styling and to have the flexible user Interface experience, we will use **Cascading Style sheets (CSS)** and are making use of frameworks like **bootstrap**, **ElementUI**, **fontawesome**.

We are using **JavaScript** to manage frontend validation, build frontend features and fetch Api's created in the backend.

Backend Development:

The Backend server is built using **NodeJs**. The API's that are built at the backend part of the project can be easily fetched for the frontend. We will also include a middleware, **ExpressJS** as it is a modular web framework for Nodejs which eases the creation of web applications and servers.

Database:

Mongo DB Atlas is used for the storage/manipulation of the data. Mongo DB Atlas is a fully managed cloud database.
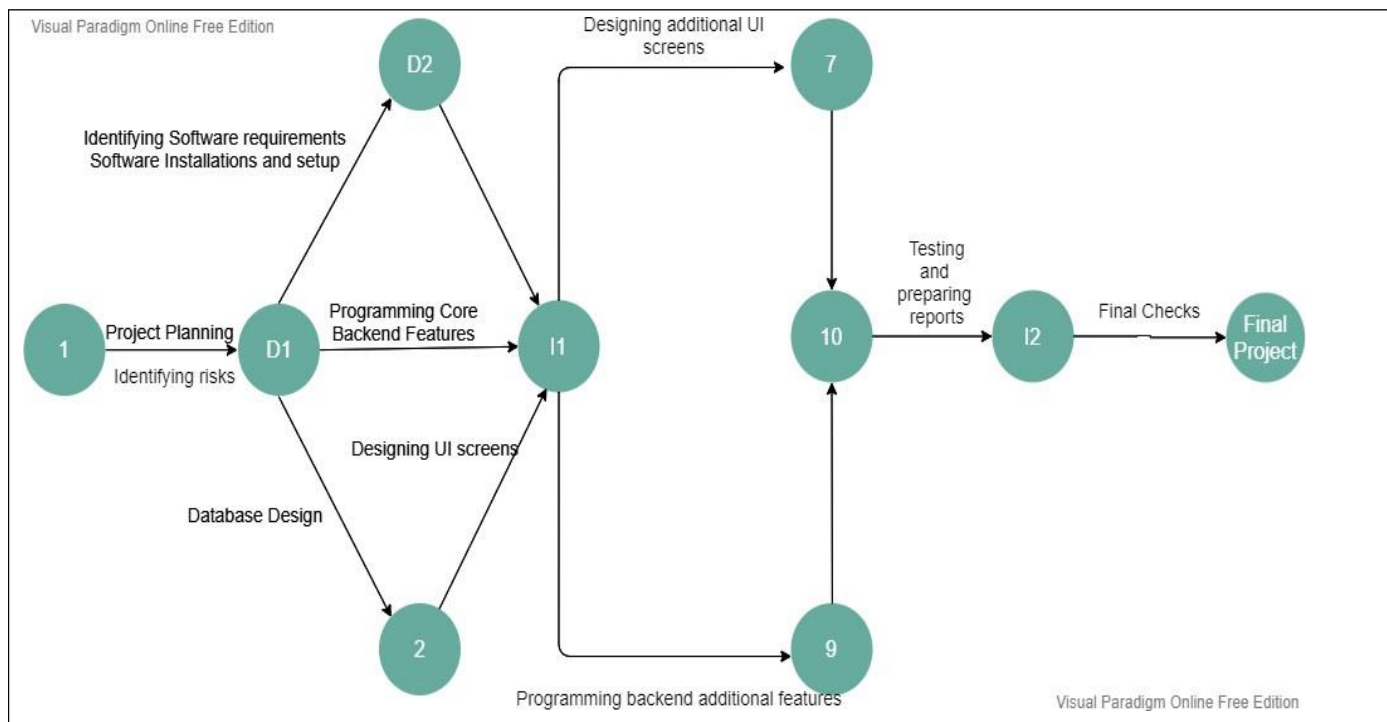
Project Management Tool:

We have created a **KanBan board** in Trello. The entire project will be managed in such a way that the tasks that are assigned to each of the team members updated in the backlog card for project tracking. Team members will be updating onto the status of their assigned work.

Configuration Management System:

The group repository in GitHub is named (**Code6**). Wherein each of the team member will push the updated code to their own branches, once the task assigned is executed with program expectations.

IV. **PERT CHART**

Project's initial planning starts with installations of software's and segregating the tasks for each of the team members.

The Front end and Backend team will initiate the programming parallelly to finish the development of core functionalities by end of Iteration1.

The Front-end team will involve in designing the UI and fetch the API's developed by backend team.

The Back-end team will first create the database connection securely and will start developing the APIs for each of the core features of the application.

On the regular basis, risks will be monitored in order to maintain efficiency and security.

V.   <u>Risk Management</u>

Below are the three main risks -

Timelines Risk:

- Completing each and every task in the given timeline is crucial to finish the project on time.

- Not able to finish any given task in the time due to any reason is a major risk.

- We plan to have a backup team member support for each and every delaying task to finish the task in time.

Communication Risk:

- Effective and frequent communication is an important work ethic when you have a project to complete with good quality in a certain amount of time.

- Although, we have many communication channels to use, sometimes team members neglect or may not be able to attend the meetings which leads to loss of information.

- We plan to record every meeting and note down the minutes of meeting to share with all the team members to prevent miscommunication.

Merge Conflicts Risk:

- In a group project, it is important to have a code management tool and here we are using GitHub. When all the team members push their updated code to GitHub, we need to merge all the functionalities and when a team member does not update his git in local system there might be many conflict errors.

- These errors might lead to misbehaving of application, loss of date etc.

- We plan to learn the git fully before starting to use it and always make sure pull the updated git repo before writing a code.

VI.   Team Members & Responsibilities

Team Members	Responsibilities
1) Venkata Rajashekar Reddy Chinthala	UI Design
2) Raja Srinivas Nelluri	UI Design
3) Satish Thammaneni	Frontend Development
4) Sai Karthik Koncherlakota	Testing
5) Sathwik Gaddi	Backend Development
6) Sri Snigdha Kotharu	Database Handling
7) Tanvi Thirunathan	Backend Development
8) Putta Ramya Priya	Backend Development

VII. Member contribution table

Member name	Contribution description	Overall Contribution (%)	Note (if applicable)
(1) Sathwik Gaddi	PERT CHART & Development Environment	12.5%	
(2) Tanvi Thirunathan	Project Description & Development Environment	12.5%	
(3) Putta Ramya Priya	Risk Management	12.5%	
(4) Sri Snigdha Kotharu	Project Initial Planning	12.5%	
(5) Sathish Thammaneni	Risk Management	12.5%	
(6) Sai Karthik Kocherlakota	Team Members and Responsibilities	12.5%	
(7) Raja Srinivas Nelluri	Risk Management	12.5%	
(8) Venkata Rajashekar Reddy Chinthala	PERT CHART & Project Initial Planning	12.5%	