

TEAM OPERATIONS SANDBOX SYSTEM

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Abstract: For successful completion of any project management is an important operation. If someone start any company, they are new to the market and they don't have any clients. Market doesn't know that they are providing services. So, for early-stage company it will be a tough task to get the clients and also to manage the projects. Keeping a track on how the projects are going, how the tasks are progressing, and the inventory of the organization. These is challenges for a early stage company.

So, considering all these problems, we built this application in which from getting clients and managing projects, and delivering results can be done in a single platform.

This helps in increasing the productivity while developing the projects, and better communication is done between the different sectors.

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1. INTRODUCTION

The service-oriented startups will be always started by the youth, most probably the college graduates, students. The services they provide are basically the Web development, Backend APIs development, Cloud services. But the problem most people face is that they don't get new clients at the beginning. They are new to the market, and the market doesn't know they are providing the services. Also, they need to have tools to manage the projects, people in their company. Here we want to provide them a complete end-to-end application that helps the companies to get the clients, and manage the project, complete it, and finally deliver the product to the client, and in return get the money and rating from the client. The managing part includes, adding people in to the organization, create tasks for the projects, add members into the tasks. Record the visits, facilities to note down the notes, Internal social media, managing the inventory in the organization, assigning them to the projects. The functionalities like these will be increase the productivity in the company, and it is important thing for the early-stage startups. This facilitates the companies to boost up their revenue, and their name in the market. The clients can search for the companies and assign the project which they feel most suitable and capable. Also, the application should not be limited to single platform. The application which boosts the revenue of the early-stage startups should not be only available on single platform, say, Website. So, in order to make the application available on different platforms, this project is aimed to be Progressive Web Application.

2. DESIGN

The application will be a Progressive Web Application, so it will be available all mobile, desktop as an application serving through a website. The frontend is developed using the ReactJS and Evergreen, Bootstrap is used as UI frameworks. The Applications Programming Interfaces (APIs) are developed using NodeJS, ExpressJS. ExpressJS will run on the NodeJS environment. The data will be stored in the MongoDB Atlas.

Figure

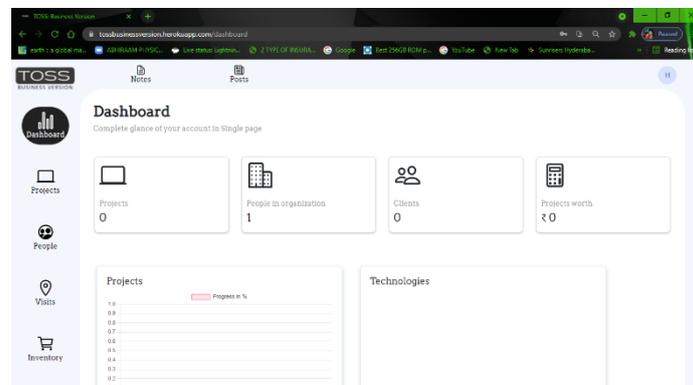
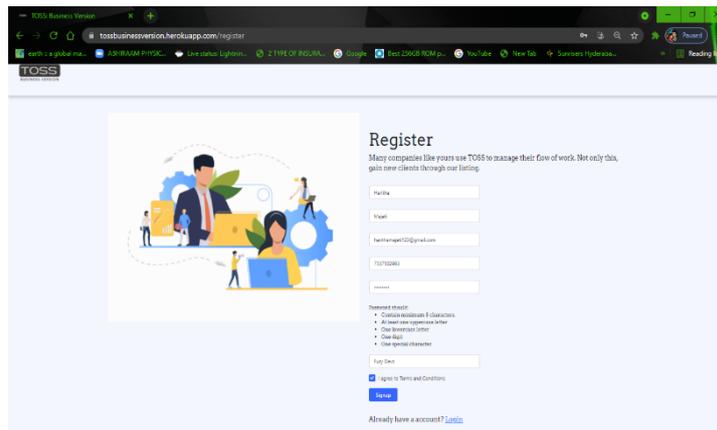


Figure 2. Dashboard

3. ANALYSIS

The application is to provide an application that helps to get the clients for the early-stage startups. And also, to provide the functionalities to manage the projects, people, inventory in the organization. The application will be used for the complete flow, like getting the projects from clients to managing the project during development, and finally receiving the rating from client after completion of project.

4. RESULTS

The application will have the following modules, that facilitates the users for the complete flow.

Companies Listing. If the company admin is successfully registered with the company name, the company is ready to accept projects. The company will be listed in the Home page of the client, so that the company can be assigned with the project by the client. The client can filter the companies based on the company's rating.

Assigning Projects. The client, after choosing the best company for project, can assign that project to that company. While assigning the project it is needed to provide the Project name, Project description that have the complete details of the project, project start date and end date, budget, and the project category. These details will be shared with the company that is assigned to.

Reports. After receiving the project from client, the company head can see the reports. Reports is the page where the Avg. Budget based on the previous projects of same category will be generated. The Avg. budget they took for previous related projects will be shown to the company admin. And also, the Avg. Days they took for previous related project of same category will be shown. Then the rating they received for previous related projects. Considering all these factors, the company head can make decision whether to continue with project or not. At the bottom, the projects of same category will be shown.

Add People. Company admin needed to add the employees in the company. The name, email address, mobile number are the basic details that are required to add the employee. But the most important thing requires is the role. The roles are Admin, Tech, and Inventory. The role should be mentioned while adding people. The access for the user will differ in the application based on their role.

Notes. Notes is one of the modules in the application. Using notes, the user can write anything like someone's mobile number, personal to-do list, etc. Also, user can set the text color, and background color for the notes based on their choice. By default, the text and background color are black and white respectively.

Visits. In this module, the user can note the visits they made. For example, any meetings with clients, companies, and the next follow-up dates can be stored here.

Posts. In Posts, the people of the company can share the news or their personal achievements with the people of same company. It is like a social media for a company. The posts will be shared with the other companies. The users can like the posts if they like it.

Dashboard. The dashboard module will only be accessed by the company head Dashboard will contain the complete details of the account. Like No. of projects, No. of people in the organization, total projects worth. Along with these details, the graphs showing the progress of projects, details of technologies using in different projects will be displayed.

5. CONCLUSIONS

This type of application will be useful for the early-stage startups, to get the clients, and generate the income. The clients also can make their projects done by the best companies in the market. The project management will be done by the companies, and their productivity will increase while developing projects. The companies will have clear idea how the project developments are going on, and what inventories are purchasing, how they are utilizing. The tools like visits, notes will be helpful for day-to-day uses for the users. Since it is a Progressive Web Application, the application will be available on Mobile and Desktop.

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