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Trello Clone

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Abstract – The project "Trello Clone" will help in a very important aspect of modern development which is Project Management. The primary purpose of this application would be easy accessibility and assisting in the smooth conduct of a project's life cycle. One often finds themselves in a confused state specially when the tasks to be performed keep on increasing with the workforce and there exists a hint of failure in keeping track of what has been completed and by who. This application assists everyone who are involved in project management to make their tasks easier and sorted in a clean and legible way. The application is Android based which increases its accessibility on a massive scale and has very basic user interface for a person to interact with and learn it's working. The application stars with user personalised account making and emerges into a full workspace providing users to take control of what and how they want to manage their projects. The data hence entered is stored in real-time databases which are robust and highly secured.

***Key Words*:** project, management, data, database, accessibility, personalised

1.INTRODUCTION

In modern day project design, development and release, with the increasing weight of applications and the programming complexity, it is of utmost importance that there exists a rigid workflow, a track of completion and remaining work. This project serves to provide a solution to the same problem. This project allows teams working on a project to sort their tasks in a legible and technical manner. This allows them to be freely focus on their respective tasks without worrying about the status of the project. Requiring manual updating also makes sure that everyone is marking their completed tasks to keep the other members in touch with their progress and the overall completion of the project.

2. LITERATURE REVIEW

- The paper "Project management: cost, time and quality, two best guesses and a phenomenon, its time to accept other success criteria" provides some thoughts about success criteria for IS–IT project management. It explains project management by considering cost, time and quality as three parameters upon which project management stands. It states that This is perhaps not surprising, since over the same period those criteria are usually included in the description of project management.
- The paper "Building theories of project management: past research, questions for the future" states that last decade received wider interest from other academic disciplines. As the field rapidly expands, the need for an internal discussion and debate about project management research increases. Project management and project organization is a complex subject and, we argue, is usefully examined from several perspectives. It also describes and puts forth several questions regarding what the future of project management is and what are the different trends regarding the improvement of project management tools and techniques.
- The paper "Factors influencing the usage and selection of project management software" analyzes and assess those factors that influence the extent of usage, type of usage, and selection of project management software by professionals in different fields. The analysis reveals strong differences in extent of usage, type of usage, and software selection based on individually significant environmental and intermediate factors. It also provides strong support for the hypotheses relating to extent of software use and level of software package used, while providing qualified support for the hypothesis relating to software use for planning only versus planning and control.
- The paper "Software project management tools: a brief comparative view" discusses how the task of managing a software can be an extremely complex one, drawing on many personal, team, and organizational resources. The quality of a software product is dependent on the process in which the project is completed. Time delays in software development project and low productivity tend to fall right to the bottom line.

Recently, the evolution of project management tools for both software and non-software applications has been accelerating at a rapid pace, and the number of available products has grown significantly. The paper also discusses at a comparative rate how different types of software have different types of tool needs and how to find for oneself what the best tool needed is.

3. PROBLEM STATEMENT

In modern day project design, development and release, with the increasing weight of applications and the programming complexity, it is of utmost importance that there exists a rigid workflow, a track of completion and remaining work. This project serves to provide a solution to the same problem. This project allows teams working on a project to sort their tasks in a legible and technical manner. This allows them to be freely focus on their respective tasks without worrying about the status of the project. Requiring manual updating also makes sure that everyone is marking their completed tasks to keep the other members in touch with their progress and the overall completion of the project. The problem often arises with scheduling and allotment of different tasks depending upon the skillset and field of the individuals. This problem can be sorted by software project management tools which can assist without the users having to do the heavy lifting.

4. OBJECTIVES OF THE STUDY

- Project management is a way to support the creation of a project beginning from an idea to finally becoming a product. Project management is the process which enables the team/teams working on a project to successfully complete their project while keeping track of their work rate and the delivery timings. This leads to better company image and heightened customer satisfaction. This reduces further stress upon workers who do not have to worry anymore about the overall progress and the incomplete tasks of the project.
- Allotment of different tasks to different individuals depending upon their skillset and their fields.
- Interoperability.

5. PROPOSED SYSTEM

- Management of all projects by using complex data models simplified using user friendly UI.
- Improving the quality of software products is a key objective of leading companies and teams as the competition has heightened exponentially over the years with software being the new normal for undertaking all the tasks. Customer satisfaction remains the center of attention for all the companies. Almost all companies that are working on major or minor projects are working with software project management tools aiming to achieve accurate scheduling to deliver the promised products of time which also deliver customer satisfaction. The application provides a good number of tools to sort, manage and schedule one's project and fulfill the needs of management for a team or company.

6. WORK PLAN

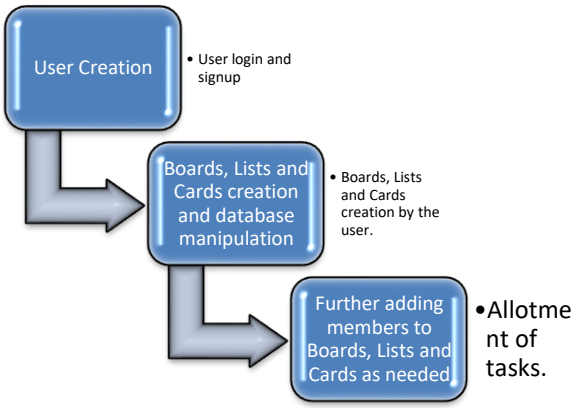

Fig – 6.1: Work Plan

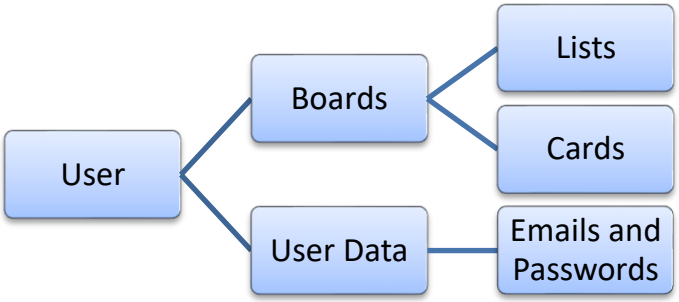

Fig – 6.2: Data models

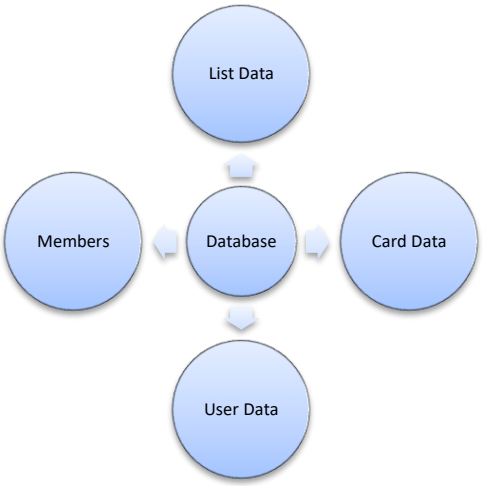

Fig – 6.3: Architectural design

7. FUTURE SCOPE

- Creation of an efficient way to connect the Android application to a web application.
- Creation of a database only software for special requests to make changes to it.
- Addition of the feature of deleting members based on priority and administrative ranks.

8. CONCLUSION

Through this application we provide a solution to software project management problems. This application provides the users with cards within lists and lists within boards with different levels of access depending upon the skillset and field being worked on by the user. This application provides the means to distribute tasks amongst different members working on the same project also while keeping a track of overall progress. This project shows how to leverage databases and project management to cater to one's needs and assist multiple users to further provide quality software solutions and at the stipulated release time.

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