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BSC. (Hons) Computing

ST6002CEM Mobile Application Development

Project Proposal
on

Bhumihar Matrimonial

Submitted to

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Introduction to Bhumihar Matrimony

This is an introduction for the project of developing a matrimonial app for the Bhumihar community. The goal of this project is to create an app that simplifies the process of finding a life partner within the Bhumihar community, while also providing a platform for meaningful connections and relationships.

The Bhumihar community has a rich cultural heritage and traditions, and the process of finding a suitable partner within the community can be complex and time-consuming. The app aims to streamline this process by providing a user-friendly platform where Bhumihar singles can easily create profiles, search for potential partners, and communicate with each other.

Extensive research has been conducted on the needs and preferences of the Bhumihar community to ensure that the app meets their unique requirements. A team of experienced developers, designers, and testers are committed to delivering a high-quality app that is secure, reliable, and user-friendly.

This project will involve several phases, including data collection, database development, app design and development, testing, and deployment. The team will work closely with stakeholders to ensure that the app meets their expectations and is delivered on time and within budget.

The app has the potential to make a significant impact on the Bhumihar community and bring together many meaningful relationships. The team is excited to embark on this project and looks forward to delivering a successful app.

Justification of the Project

The Bhumihar community has a significant presence in Nepal, and finding a suitable life partner within the community can be a challenging task due to various social and cultural barriers. Moreover, with the increasing number of Nepali Bhumihar youths working and studying abroad, it has become even more difficult to find a suitable partner within the community.

Therefore, our matrimonial app aims to simplify the process of finding a life partner within the Bhumihar community by providing a dedicated platform that is tailored to the unique needs and preferences of the Nepali Bhumihar community. The app will enable Nepali Bhumihar singles to easily create profiles, search for potential partners, and communicate with each other in a secure and reliable environment, regardless of their location.

The app's features and functionality are specifically designed to cater to the Nepali Bhumihar community's cultural and religious beliefs, such as the ability to filter matches based on caste and horoscope compatibility. This will help Nepali Bhumihar singles find partners who share similar backgrounds, values, and beliefs, and potentially lead to more meaningful and successful relationships.

Description of the Project

The matrimonial app is designed specifically for the Bhumihar community to simplify the process of finding a suitable life partner within the community. The app features a user-friendly interface that allows Bhumihar singles to easily create profiles, search for potential partners, and communicate with each other in a secure and reliable environment.

The app is tailored to meet the unique needs and preferences of the Bhumihar community, with features such as filtering matches based on caste and horoscope compatibility. The app's functionalities are designed to be culturally and religiously sensitive, taking into account the traditional values and customs of the community.

The app aims to make the process of finding a life partner within the Bhumihar community more accessible, efficient, and convenient. It has the potential to bring together many meaningful relationships and contribute to the growth and well-being of the Bhumihar community.

Aims and Objectives

Aims:

- To simplify the process of finding a suitable life partner within the Bhumihar community.
- To provide a dedicated platform for Bhumihar singles to search for potential partners.
- To create a secure and reliable environment for Bhumihar singles to communicate with each other.
- To cater to the unique needs and preferences of the Bhumihar community.

Objectives:

- To develop a user-friendly app interface that is easy to navigate.
- To incorporate features that are culturally and religiously sensitive to the Bhumihar community, such as caste and horoscope compatibility filtering.
- To create a platform that is accessible and convenient for Bhumihar singles, regardless of their location.
- To foster meaningful relationships within the Bhumihar community through the app's functionalities.
- To contribute to the growth and well-being of the Bhumihar community by bringing together potential life partners.

MVVM Design Pattern

MVVM (Model-View-ViewModel) design pattern could be applied to the matrimonial app for the Bhumihar community:

Model:

- The model layer would contain the data and business logic of the app.
- This layer would communicate with the backend server to fetch and store data related to user profiles, match preferences, and messaging.
- The model layer would also contain data validation logic to ensure that the data entered by the users is accurate and meets the app's requirements.

View:

- The view layer would be responsible for displaying the user interface of the app.
- This layer would include the screens for user registration, login, and profile creation, as well as the screens for searching and messaging potential matches.
- The view layer would also handle user interactions such as button clicks and form submissions.

ViewModel:

- The ViewModel layer would act as a mediator between the model and view layers.
- This layer would contain the business logic that connects the data and functionality of the model layer with the user interface of the view layer.
- The ViewModel would also be responsible for exposing the necessary data and functions to the view layer through data bindings.
- For example, the ViewModel could provide the necessary functions to search for potential matches based on user preferences and display the results on the view layer.

By using the MVVM design pattern, the matrimonial app for the Bhumihar community would have a clear separation of concerns between the data, business logic, and user interface of the app. This would make the app more modular, scalable, and easier to maintain in the long run.

Configuration Management

Configuration management is the process of managing the configuration of an application or system to ensure that it runs smoothly and consistently across different environments. GitHub is a powerful tool that can be used for configuration management, particularly for version control and collaboration.

One way to implement configuration management for the matrimonial app using GitHub is to use branches to manage different environments. For example, there could be a development branch where new features are added and tested, a staging branch where the app is tested in a production-like environment, and a production branch where the app is deployed to users.

To ensure that the configuration is consistent across different environments, the configuration files could be stored in a separate repository or branch. This would allow developers to make changes to the configuration files without affecting the codebase, and also enable easy rollback in case of issues.

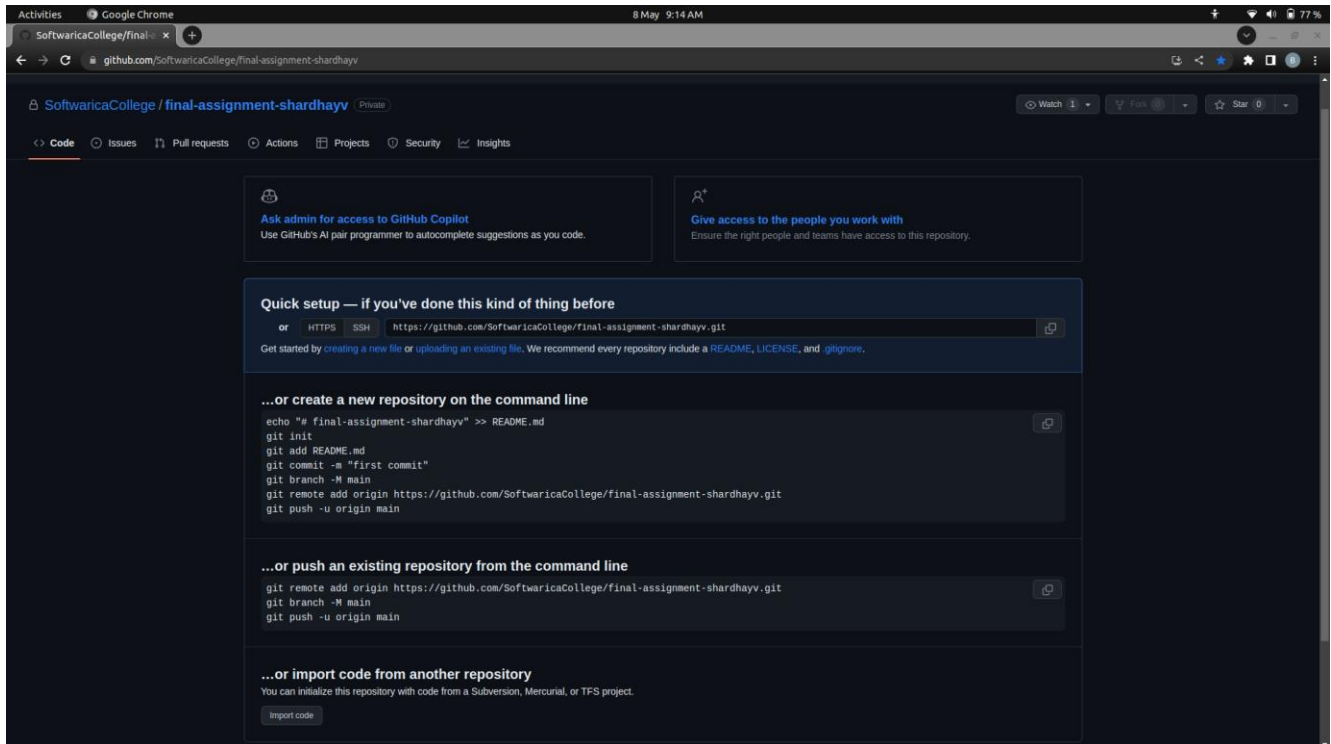
Additionally, GitHub provides tools for managing access control and permissions, allowing developers to control who has access to different branches and repositories. This helps to ensure that only authorized personnel are able to make changes to the configuration and codebase.

Overall, using GitHub for configuration management can greatly improve the development process for the matrimonial app, by providing version control, collaboration tools, and access control. It can also help to ensure that the app runs consistently and smoothly across different environments, leading to a better user experience.

GitHub Link:

<https://github.com/SoftwaricaCollege/final-assignment-shardhayv.git>

GitHub Repository Screenshot



Prototyping

1. Content Consistency: Hamrobazaar.com ensures that the content on the website is consistent and up to date. The website provides detailed product descriptions, images, and specifications.

Conclusion

In conclusion, the matrimonial app for the Bhumihar community has the potential to revolutionize the way Bhumihar singles search for potential life partners. By providing a dedicated platform that caters to the unique needs and preferences of the community, the app can greatly simplify the process of finding a suitable partner.

Through the use of advanced technologies and design patterns such as Flutter and MVVM, the app can offer a seamless and user-friendly experience. Additionally, implementing configuration management using GitHub can ensure that the app runs consistently and smoothly across different environments.

Overall, the matrimonial app for the Bhumihar community is a promising project that has the potential to bring together potential life partners and contribute to the growth and well-being of the community.

References