

MATCH MAKER

ONLINE SOCIAL CONNECTION PLATFORM

**A PROJECT REPORT SUBMITTED IN PARTIAL
FULFILMENT OF REQUIREMENT
FOR THE AWARD OF THE DEGREE**

MASTER OF COMPUTER APPLICATIONS (MCA)

OF

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

BY

SHAHABAS AHAMMED AK
Reg No: 22PMC150



**MARIAN COLLEGE
KUTTIKKANAM**

(AUTONOMOUS)

MAKING COMPLETE

Marian College Kuttikkanam Autonomous

Peermade, Kerala – 685 531

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Under the guidance of
SR ITALIA JOSEPH MARIA
ASSISTANT PROFESSOR
PG Department of Computer Applications
Marian College Kuttikkanam Autonomous



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PG DEPARTMENT OF COMPUTER APPLICATIONS

Marian College Kuttikkanam Autonomous

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

KUTTIKKANAM – 685 531, KERALA.

CERTIFICATE

This is to certify that the project work entitled

MATCH MAKER

is a bonafide record of work done by

SHAHABAS AHAMMED AK

Reg. No. 22PMC150

In partial fulfillment of the requirements for the award of Degree of

MASTER OF COMPUTER APPLICATIONS [MCA]

During the academic year 2022-2023

SR ITALIA JOSEPH MARIA

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External Examiner

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SHAHABAS AHAMMED AK

ABSTRACT OF MATCH MAKER

This project is designed so as to be used by Match-Maker Company specializing in finding connection or relation between users. It is an online system through which users can view other users, register, view and edit profile and request users to be their friend. The advancement in Information Technology and internet penetration has greatly enhanced various online socializing processes and communication between people.

Users will be able to create their profile from anywhere in the world by using this Match-Maker, by providing information to this application by filling in their personal information. When a user creates an account on the website, his or her profile will be shown in the explore page. The proposed system is an online system that is fully integrated. It helps users to send requests to other users and if the users are interested to talk or connect with the requested user they can connect via the contact number provided by the system only after accepting the request. The goal of this system is to create a connection between users.

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1. INTRODUCTION

1.1 Problem Statements

The Manual socializing way, people faces so many troubles like shyness, reduce in connection with people. People find the starting trouble to start a conversation or to know about other people. The existence of online socializing systems will help people to make a connection between people and helps them to know each, by protecting each other's privacy and security. However, there is still a few numbers of these online socializing systems in society.

1.2 Proposed System

Match Maker helps people to connect with other via a friendly interfaced platform. Every user can create and edit their profile in this application. Where users' profiles will be shown in the explore page as other people can see their profiles except our own profile. Users can send requests to other users, while they send they can see the details of other users' like name, DOB, qualifications. When user requests to be someone friend, the request will be shown to the user and they can decide to accept the request or to decline it. If the accept the request the profile will be shown in the accepted page along with the WhatsApp number, where they can send use it to contact with the user, if they wanted to. Using this technique everyone will never get to know our number, only the user who accepts our request will know. The admin can manage all the entire application like managing user details, managing requests of users.

1.3 Features of the Project

- 1.** The Match Maker is simple, user-friendly, and can be easily integrated with the existing system.
- 2.** Highly Secure, Scalable & Reliable.
- 3.** Provides high level of privacy and self-concerns of data sharing.
- 4.** Time for sending requests and accepting requests will be faster.

2. FUNCTIONAL REQUIREMENTS

FUNCTIONAL REQUIREMENTS

Match Maker is divided into two modules:

1. User Module
2. Admin Module

User Module details:

Make and Edit profiles

It is a system made for connecting with people all over the world via the platform, so in order to meet others through here, people need to make a profile, and people can edit the created profile whenever they wanted.

View others users' profile and send requests

The user can view others users and can send requests to them.

Accept or Reject requests

The user can accept or reject requests which are sent to him.

Admin Module details:

1. Dashboard

In this section, admin can view the overview of the Match Maker.

2. Manage users

Admin could view, manage users.

3. Manage requests.

Admin can manage the requests of users.

3. NON-FUNCTIONAL REQUIREMENTS

NON-FUNCTIONAL REQUIREMENTS

a. Reliability

The reliability of the overall project depends on the reliability of the separate components. The main pillar of reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes, Also the system will be functioning inside a container. Thus, the overall stability of the system depends on the stability of container and its underlying operating system.

b. Availability

The system should be available at all times, meaning the user can access it using a web browser, only restricted by the down time of the server on which the system runs. A customer friendly system which is accessible for people around the world should work 24 hours. In case of a hardware failure or database corruption, a replacement page will be shown. Also, in case of a hardware failure or database corruption, backup of the database should be retrieved from the server and saved by the Organizer. Then the services will be restarted. It means 24 X 7 availability.

c. Maintainability

A commercial database is used for maintaining the database and the application server takes care of the site. In case of a failure, a re-initialization of the project will be done. Also, the software design is being done with modularity in mind so that maintainability can be done efficiently.

d. Supportability

The code and supporting modules of the system will be well-documented and easy to understand. Online documentation can in help system requirements.

4. FEATURES AND HIGHLIGHTS

4.1 Features

1. Create user profile

This is, obviously, the most basic and the most important of the core requirements. While the user sign-up into the system, the system asks for email address and password which can be used for further login.

2. Edit profile

When a user created a profile, no more details will be asked by the system, the user have to give more details by editing his profile. User have to give information like name, DOB, bio, WhatsApp number, qualification, and user can also edit his email and password where he can use it for further logins.

3. Exploring other users' profile

As a socializing platform every user will be able to see the profiles of other users who logged into the system. When a user didn't edit or update their profile their details in the explore page will be seen as an empty profile. User should update his profile to be a valid profile in the explore page.

4. Request to users

Once the user starts to explore the profiles in the system, user can see the details like name, dob, bio, qualification, gender, photo of the user. When a user likes a profile with the details shared by the user to the public any user can send request to the profile they wanted to. The user can see them in the requested page in the system.

5. Accept or Reject requests of users

Every user can see the requests sent to them in the requests page, where they can accept or reject the requests that have been shared along with their WhatsApp number, where they can see it after they accept a request which will be shown in the accepted page, which can be used for further contacting the user that sent the request, or they can reject their request which will be removed from the request page.

There is always a need of a system that will provide a way to getting know with other people around the world.

Using the platforms like Match Maker will make the people contact with other people along with respecting other user's likes and unlike, and protecting user's details. Thus, there is a big need of developing online socializing platforms in order to explore the world by connecting with others. The new system is totally computerized system.

- A new system provides features like time efficiency to show details of users via profiles and whatever the user does will be visible to admin.
- This system provides number of users' after accepting request of being mates.
- It is the most software application of socializing platform Match Maker.

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between people.

5. TECHNICAL ASPECTS

Architecture of Project

1. Presentation Layer

Templates: HTML templates are used to define the structure and layout of the user interface. Django's template engine allows you to dynamically populate the templates with data.

2. Application Layer

Controllers: In Django, controllers are implemented as views, which handle the request/response flow and control the overall behavior of the application.

3. Logic Layer

Models: Django's models define the data structure and business logic of the application. Models represent entities like users, requests, etc. They handle database operations, such as querying, inserting, updating, and deleting data. Models can also include methods to perform complex logic.

4. Jazmin

Django Jazmin is a customizable and modern admin interface for Django applications. It provides an alternative user interface for the Django admin site with a more visually appealing design and additional features. Jazmin aims to enhance the user experience and improve the productivity of developers working with Django.

By installing and configuring `django-jazzmin` in your Django project, you can customize the admin interface by changing themes, layouts, icons, and other visual elements. It offers features such as responsive design, drag-and-drop sorting, inline editing, and support for various third-party Django packages. To use Django Jazmin, you typically need to install it using a package manager like `pip`, add it to your Django project's settings, and configure it according to your preferences.

Here's a basic example of how to install Django Jazzmin using pip:

pip install django-jazzmin

Once installed, you would need to add 'jazzmin' to the INSTALLED_APPS list in your Django project's settings.py file:

```
INSTALLED_APPS = [
```

```
...
```

```
'jazzmin',
```

```
...
```

```
]
```

Afterwards you can customize Django Jazzmin by modifying the settings in your Django project's settings.py file.

5. Data Access Layer

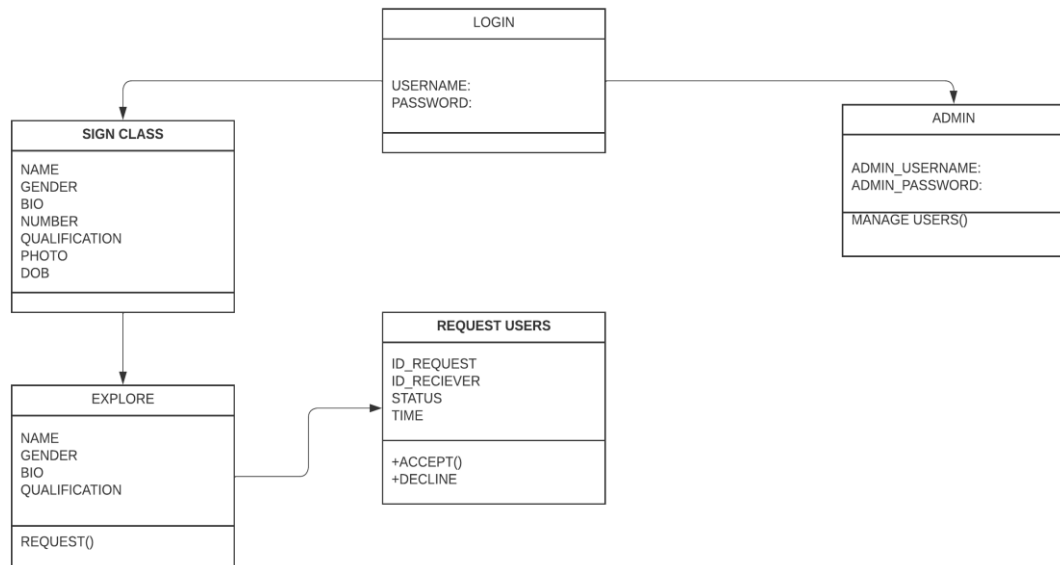
Database: Django integrates with various databases, allowing you to define and manage the application's data schema. You can use Django's Object-Relational Mapping(ORM) to interact with the database and perform CRUD operations.

6. Database Models

Django's models serve as both business logic entities and database models. They define the structure of the database tables and provide an abstraction layer for interacting with the database.

Database

Class Diagram



6. CHALLENGES

1. User Experience and Design

Designing an intuitive and user-friendly interface for travelers and administrators is crucial. Ensuring a smooth user experience, manage details and submitting details, can be challenging, particularly dealing with complex workflows and large data sets.

2. Real-time Availability

Fetching real-time availability and information for showing users' details from external providers can be challenging. Dealing with updated data , handling concurrency, and caching strategies are considerations for ensuring timely and accurate information.

3. User Authentication and Authorization

Car Rental Management software typically requires user registration, login, and role-based access control. Implementing secure authentication and authorization mechanisms can be complex, especially when dealing with user roles and permissions.

4. Validation Mechanisms

Implementing validation mechanisms helps ensure that user input is accurate and consistent. You need to validate user data at various stages, such as during registration, updating information. Validation can include for checking validation in email, phone number, password, etc.

5. Database Management

Designing an efficient database schema and managing the database operations can be complex. You need to carefully plan the structure of your database, define relationships between entities handle data integrity, and optimize queries for performance.

6. FUTURE ENHANCEMENTS

1. Quick and Secure live messaging system

The website needs integrated, live messaging system. Now the system don't have a messaging system itself.

2. Social Media Integration

The social media sites are one of the most popular means of sharing experiences for users; Facebook, Twitter, Instagram are literally global marketing platforms. Taking advantage of this, you can integrate your website with these social networking sites, which lets the users post their opinions here.

3. Location-based search

A good quality software will allow the searching based on the location of the users. This will help the users to meet friends.

4. Multi-language Support

When you reach out to users in a language that they are comfortable, greater are chances for user satisfaction. Also more the language the greater is the audience base. Ensure that the software is compatible with at least a few of the languages that are more prevalent in the area.

7.CONCLUSION

MATCH MAKER is a web application, where users can create and manage their profile. Using MATCH MAKER users can send request other users, and when they are interested in you, they may be able to contact you with the WhatsApp number provided in the accepted page along with other details. Users can only see someone's number while they send requests to you, in order to keep their privacy and importance to their likes and unlike. Admin will be able to see all the record of the application where admin uses Jazzmin for admin side.

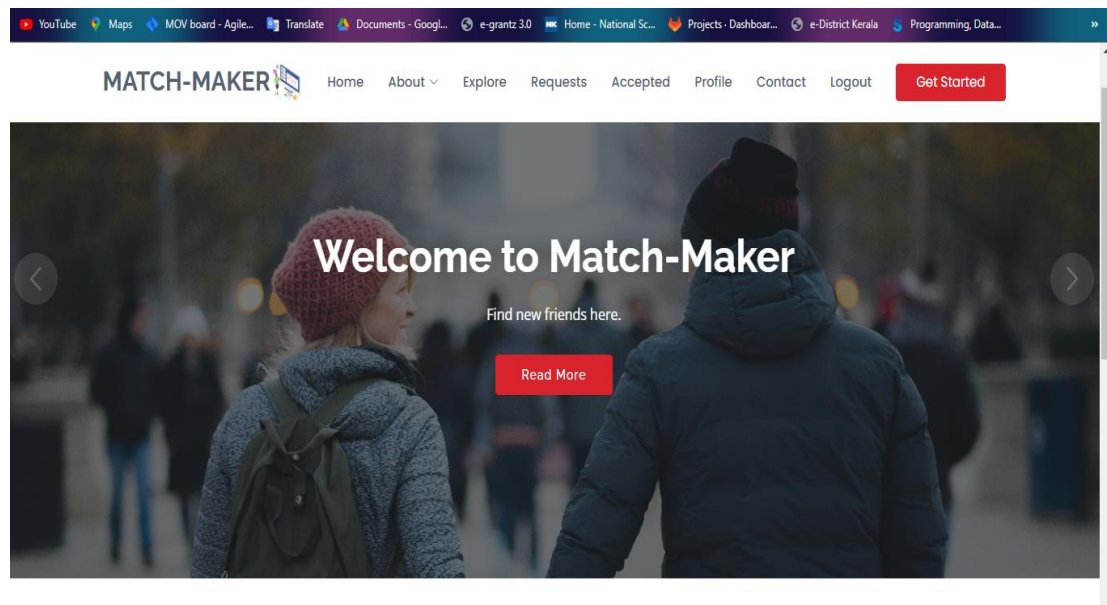
8. REFERENCES

- getbootstrap.com/
- <https://bumble.com/>
- <https://www.meetup.com/>
- <https://docs.djangoproject.com/en/4.2/>

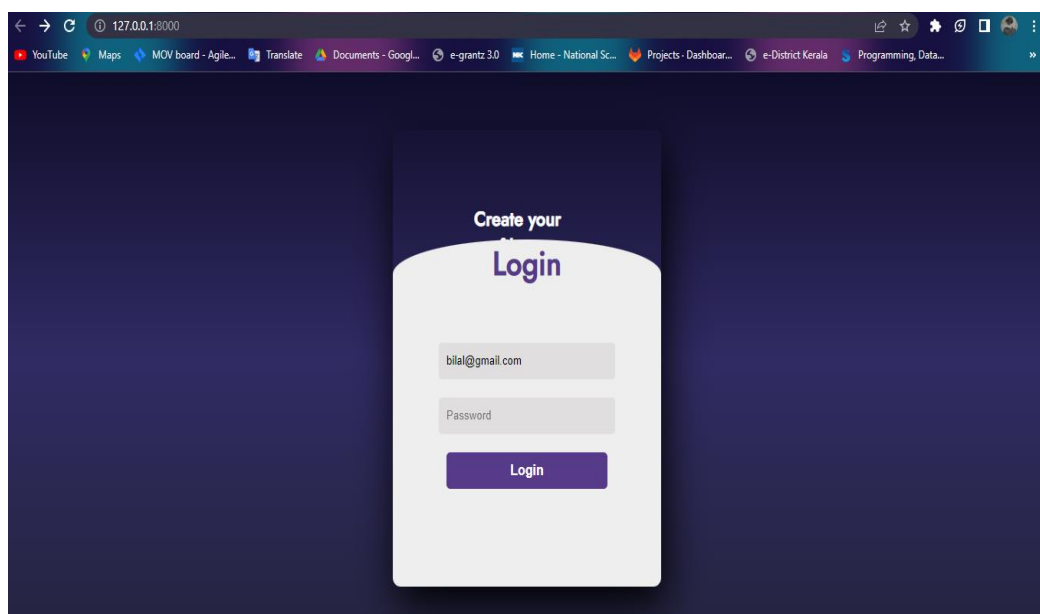
ANNEXURE

A. SCREENSHOTS

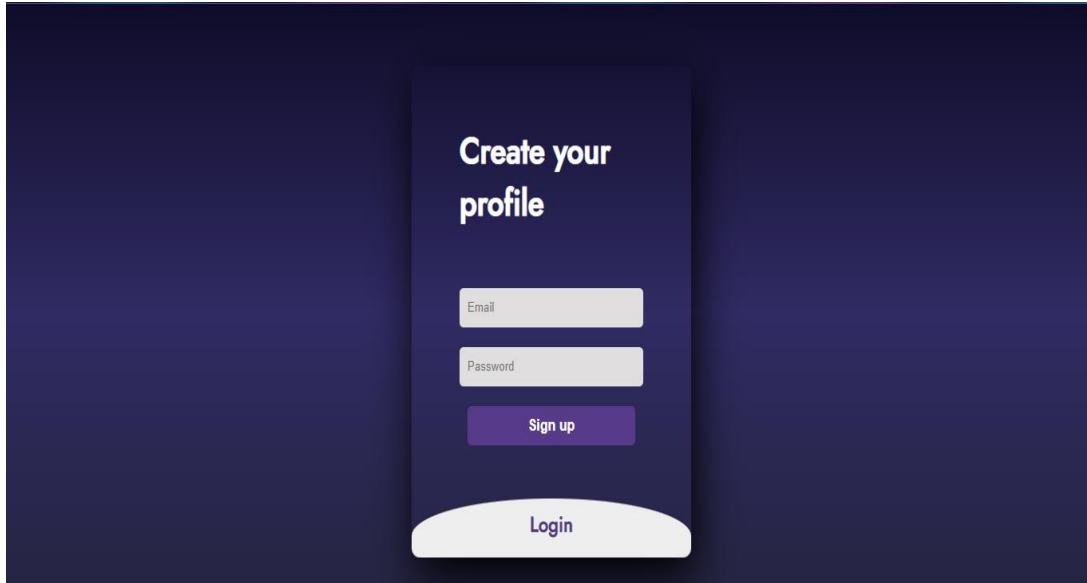
1. Home Page



2. User Login Page

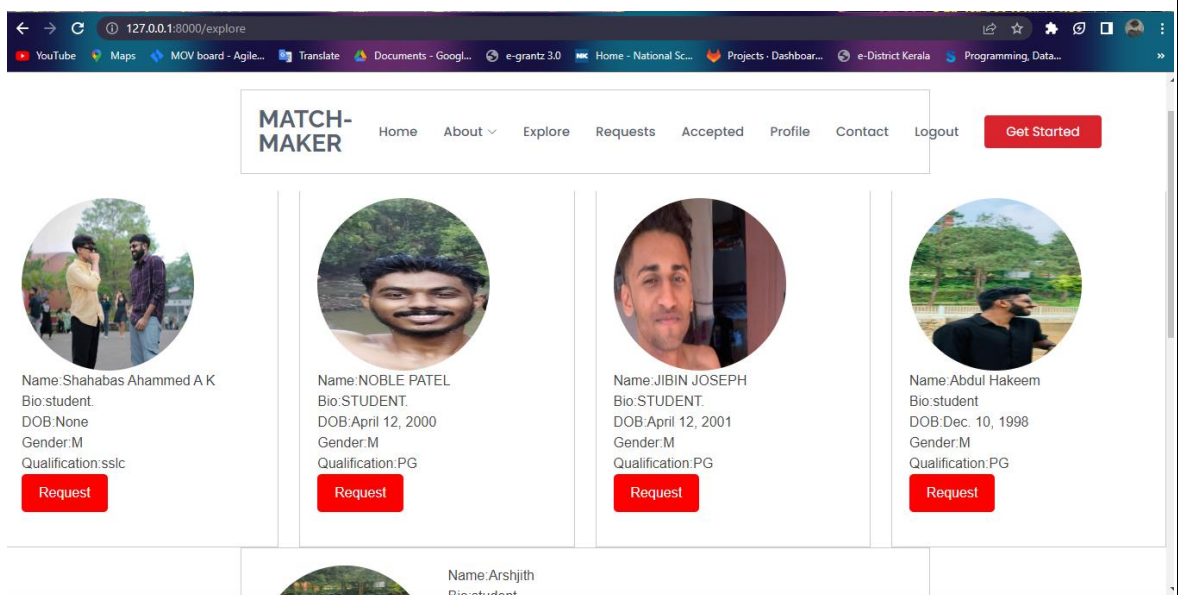


3. User Registration



The registration form is titled "Create your profile" and is set against a dark blue gradient background. It features two input fields for "Email" and "Password", a purple "Sign up" button, and a white "Login" button at the bottom.

4. Explore page




The screenshot shows the "MATCH-MAKER" web application's "Explore" page. The browser address bar shows "127.0.0.1:8000/explore". The navigation bar includes links for Home, About, Explore, Requests, Accepted, Profile, Contact, Logout, and a "Get Started" button. The main content area displays four user profiles, each with a circular profile picture, personal details, and a red "Request" button.


Name	Bio	DOB	Gender	Qualification
Name: Shahabas Ahammed A K	Bio: student	DOB: None	Gender: M	Qualification: sslc
Name: NOBLE PATEL	Bio: STUDENT	DOB: April 12, 2000	Gender: M	Qualification: PG
Name: JIBIN JOSEPH	Bio: STUDENT	DOB: April 12, 2001	Gender: M	Qualification: PG
Name: Abdul Hakeem	Bio: student	DOB: Dec. 10, 1998	Gender: M	Qualification: PG

Below the first row, a partial profile is visible:


Name	Bio
Name: Arshjith	Bio: student

5.Accepted page



[Home](#)
[About](#)
[Explore](#)
[Requests](#)
[Accepted](#)
[Profile](#)
[Contact](#)
[Logout](#)
[Get Started](#)



Name:Shahabas Ahammed A K
 Bio:student.
 DOB:None
 Gender:M
 Qualification:sslc
 WhatsApp_Number:9847867814





Name:JIBIN JOSEPH
 Bio:STUDENT.
 DOB:April 12, 2001
 Gender:M
 Qualification:PG
 WhatsApp_Number:9847867833



Name:NOBLE PATEL
 Bio:STUDENT.
 DOB:April 12, 2000
 Gender:M
 Qualification:PG
 WhatsApp_Number:9847867812

6.Request page


[Home](#)
[About](#)
[Explore](#)
[Requests](#)
[Accepted](#)
[Profile](#)
[Contact](#)
[Logout](#)
[Get Started](#)

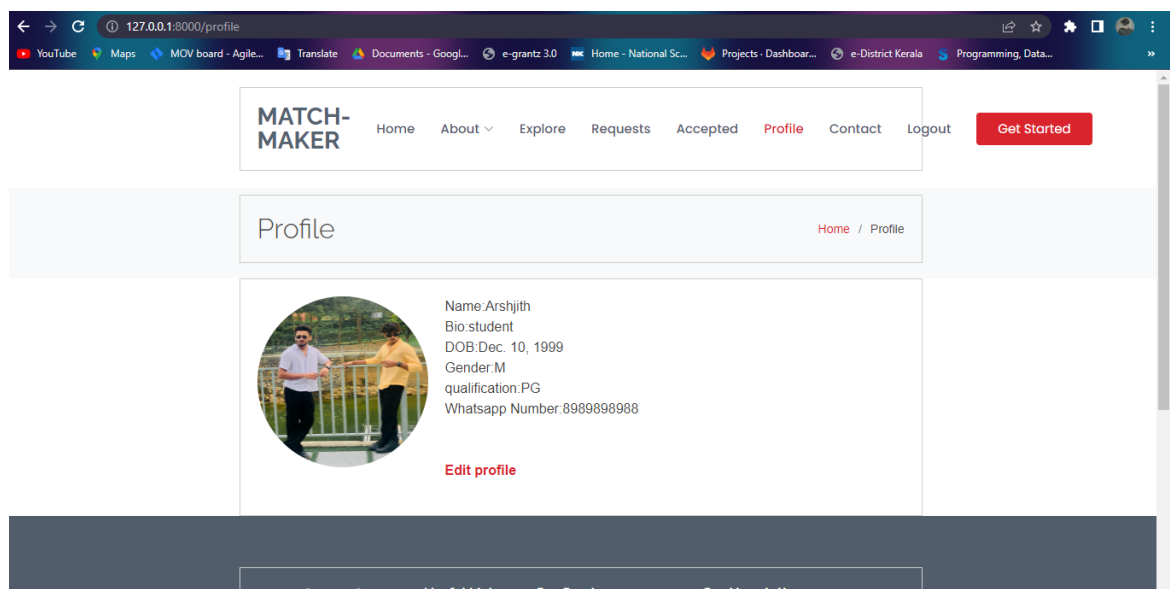


Name:Shahabas Ahammed A K
 Bio:student.
 DOB:None
 Gender:M
 Qualification:sslc
 WhatsApp Number:9847867814

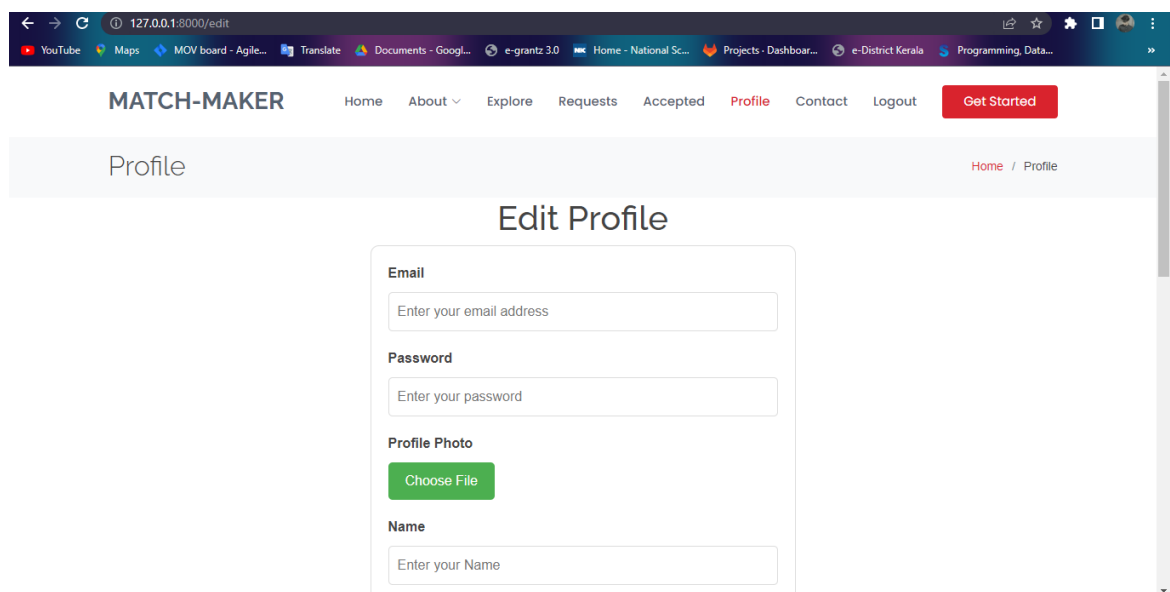
[Accept](#)
[Reject](#)

[Match-Maker](#)
[Useful Links](#)
[Our Services](#)
[Our Newsletter](#)

7.Profile Page



8.Edit Profile Page



9.About page

