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Tribhuvan University Affiliated College

**Sagarmatha College of Science and Technology**

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**A**

**Final Year Project Report**

**On**

**Online Matchmaking System**

(In partial fulfillment of the requirement for the Bachelor degree in Computer Science and Information Technology)

**Submitted to:**

Department of Computer Science and Information Technology,

Sagarmatha College of Science and Technology

Sanepa-16, Lalitpur

**Submitted by:**

Sagar K.C (Roll no 20864)

Siddharatha Khanal (Roll no 20870

Sujan Giri (Roll no 20874)

# DECLARATION

Online Matchmaking System which is being submitted to the Department of Computer Science and Information Technology, Sagarmatha College of Science and Technology, Sanepa, Lalitpur for the fulfillment of the seventh semester as major project under the supervision of Mr. Bishnu Khadka.

This project is original and has not been submitted earlier in part or full in this or any other form to any university, here or elsewhere, for award of any degree.

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Siddharatha Khanal

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# SUPERVISOR’S RECOMMENDATION

I hereby recommend that this project be prepared under my supervision by SAGAR K.C., SIDDHARATHA KHANAL, SUJAN GIRI entitled **ONLINE MATCHMAKING SYSTEM** in partial fulfillment of the requirements for the degree of B.Sc.CSIT Computer Science and Information Technology be processed for evaluation.

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**Bishnu Khadka**

Sagarmatha College of Science and Technology

Sanepa, Lalitpur

# ACKNOWLEDGEMENT

With a great pleasure, we present our project on the application “ONLINE MATCHMAKING SYSTEM”, that functions as a online matchmaking platform.

We would like to thank Mr. Bishnu Khadka, our Project Supervisor, who with his continuous support and effort, helped us create this project. Similarly, we cannot stay without expressing our gratitude to Mr. Ramesh Shrestha, the Principle of Sagarmatha College, for providing us an opportunity to perform out research activities and come up with a working solution that would be beneficial for a large mass of people.

We are thankful and fortunate enough to get constant support from out colleagues and teaching staff of B.Sc.CSIT department, which helped us, complete our project. We would also like to extend our regards to all the non-teaching staff of B.Sc.CSIT department for their timely support.

Lastly, we are thankful to all the helping hands who always welcomed us with their warm support at the time when we needed them. Also, we would like to apologies for the mistakes that may have been committed in this project report.

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# ABSCTACT

Renai is a mobile application designed to facilitate online matchmaking and connect individuals based on shared interests, preferences, and compatibility. The application provides a platform for users to create accounts, browse profiles, and engage in meaningful conversations with potential matches.

Upon logging in, users can explore a diverse range of profiles presented with the help of a recommendation algorithm, ensuring a higher likelihood of finding compatible partners. The application employs a voting system where users can express their interest by voting up or down on profiles. When a user votes up another user, a notification is sent to the potential match, allowing them to accept or decline the connection request. Upon acceptance, both users gain access to a dedicated chat feature, enabling communication and fostering meaningful connections.

Renai goes beyond traditional matchmaking by offering an additional search functionality, allowing users to search for specific individuals based on input interests. Users can find matches tailored to their preferences.

Furthermore, Renai also incorporates profile management features, empowering users to update and customize their profiles with essential details, interests, and photographs. The application also includes an administration system that verifies user logins and registrations while providing administrative oversight to ensure a safe and secure environment for users.

In conclusion, Renai offers a user-friendly and efficient online matchmaking platform, enabling users to connect with like-minded individuals, build relationships, and engage in meaningful conversations. With its recommendation algorithm, chat functionality, advanced search capabilities, and robust profile management features, Renai strives to create a positive and enjoyable matchmaking experience for its users.

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API Application Programming Interface

JS JavaScript

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# CHAPTER 1 INTRODUCTION

## BACKGROUND

In today’s fast-paced and interconnected world, finding meaningful connection and building relationships can be a challenging task. To overcome this challenge our team has developed Renai: An Online Matchmaking Application for Connecting and Chatting with Like-minded individuals.

The proposed system, through the use of a recommendation system, voting mechanism, chat functionality and search capabilities, aims to foster meaningful connection. Our application aims to create a community of individuals who share common passions, values and goals. Our

Team is committed to delivering a high-quality application that prioritizes user experience, privacy and security.

While the project may not have the same level of sophistication as industry-standard system, it serves as a stepping stone in our learning journey. The objective of our team is showcasing our understanding of the concepts learned in our coursework.

Overall, Renai represents one of a solution in the realm of online matchmaking. Our project aims to redefine the way people forge relationships in the digital age. Our project is a testament to our dedication and teamwork.

## PROBLEM

Despite the existence of a few matchmaking solution already in the marked, In Nepal, many individuals are hesitant to trust foreign applications due to cultural differences and privacy concerns. This lack of trust creates a need for locally developed matchmaking application. Our project aims to bridge this gap by providing a trustworthy and user-friendly platform that caters to the unique needs of Nepali peoples.

## OBJECTIVES

The proposed system has the following objectives:

* Enable users to easily create accounts, log in and setup profiles
* Implement a recommendation algorithm
* Incorporate a matching system with the help of algorithms and voting functionality
* Implement chat functionality

## SCOPE

The development of this project is focused on creating a functional and reliable matchmaking application for the Nepali market while considering the unique challenges and preferences of the local user base. The major scope of the proposed project includes the following.

* User registration and authentication
* Recommendation Algorithm
* User Profile Management
* Chat Functionality

## LIMITATIONS

The limitations of the system are given below: