

A project report

On

Kura-Kani

Submitted in partial fulfillment of requirement of

Project – VI BCA BCA379CO

Of

Bachelor of Computer Application

Submitted To:



Purbanchal University

Biratnagar, Nepal

Submitted By:

Bikalpa Sangat (363418)

Grishma Shrestha (363420)

Kilika Tami Shrestha (363421)

KANTIPUR CITY COLLEGE

Putalisadak, Kathmandu

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Project Supervisor

Mr. Ashim Kc

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CERTIFICATE OF PROJECT APPROVAL

This is to notify that the topic chosen by, Bikalpa Sangat, Grishma Shrestha and Kilika Tami Shrestha students of Bachelor of Computer Application, Semester VI, for their semester project has been deemed appropriate and meets the credit requirements set by Purbanchal University (PU), Biratnagar, Nepal

The project committee has granted approval for the following topic for the mentioned students.

Topic Assigned: **Kura-Kani**

.....

Mr. Ashim Kc

Lecturer (BCA/BIT)

Project Supervisor

Kantipur City College

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External Examiner

Purbanchal University

CERTIFICATE FROM SUPERVISOR

This is to certify that the project titled “**Kura-Kani**” submitted by Bikalpa Sangat, Grishma Shrestha and Kilika Tami Shrestha to the Department of Information and Technology at Kantipur City College, Kathmandu, Nepal, as a part of the requirements for Project-VI (BCA379CO), is an authentic and original piece of work. It was undertaken by them under my close supervision and guidance.

.....

Mr. Ashim Kc

Project Supervisor

Department of Information Technology

Place: Kantipur City College, Putalisadak, Kathmandu

Date: September 11, 2023

ACKNOWLEDGEMENT

We would like to express our deepest appreciation to all those who provided us the possibility to complete this report. We would like to acknowledge with much appreciation the crucial role of the staff of Kantipur City College, who gave us the permission to use all required equipment and the necessary materials to complete the task.

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ABSTRACT

Kura-Kani is a chat application that is developed for users to instantly communicate with each other. This project is a web-based application for users to instantaneously communicate with one another from any place at real time. The most important part of building a good chat application is to focus on the real time data flow on web. This project spends a good amount of research to find the most appropriate technology for delivering the data flow, which is REST API for account management, Web Socket form socket.io library for text chat and react-notify as real time push notification. We have also used variety of cloud computing services for different purpose as well as from hosting images to users in Cloudinary to cloud database as well. The cloud-based database and single threaded backend system written in Nodejs is capable of handling thousands of users simultaneously. With a proper loaded balancing the system can be scaled up for millions of users.

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