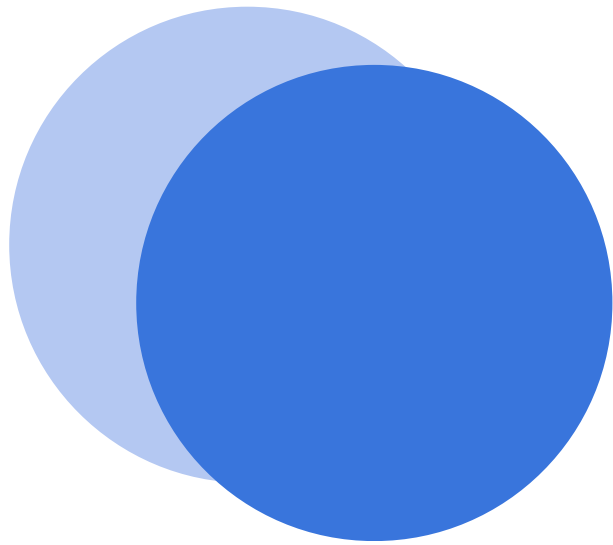




Shanto-Mariam University of Creative Technology

# Chakri Pao



## Project Selection & Planning

Prepared By:

Mostofa Hasin Mahdi

223071109

7th Semester

Batch: 31st (A)



hasinmahdi.hmr@gmail.com

Submitted To:

Ishrat Jahan

Lecturer, Dept. of CSE

SMUCT

Course: Project 2

Course Code: ICT-3204

# PROJECT DESCRIPTION



**Chakri Pao** is Job Portal Web App. It is a dynamic and user-friendly platform designed to bridge the gap between job seekers and employers. This web application will be built using MongoDB for *database*, Express.js framework, React, Node.js, Tailwind CSS, offering a seamless experience for job searching, posting, and application tracking. **(The tech stack selected as of right now, might change while building the web app)**

Whether you're an employer looking to hire top talent or a job seeker searching for the perfect role, this portal provides an intuitive interface with advanced filtering options to refine job searches based on various criteria. **Chakri Pao** web app supports efficient job management, and job tracking to ensure a smooth experience for both employers and applicants.

## FEATURES BREAKDOWN

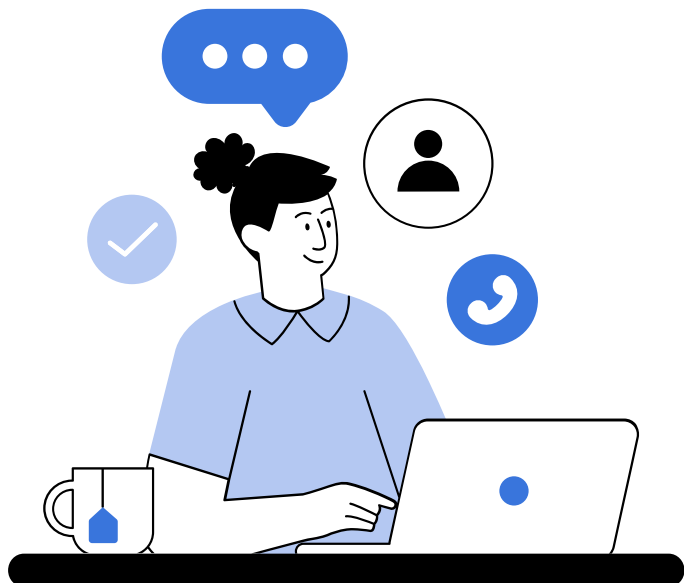
**Chakri Pao** will offer multiple features which will ease the user experience for both the employer and employee.

### 1. Storing User information

User information will be saved as job seeker or employer. Job seekers can look for jobs and apply for it. Employers will be able to manage jobs.

*Database Operations:*

- Register new users in the database.
- Verify credentials during login by checking stored hashed passwords.
- Users can update their profile information.
- If an account is deleted, all associated applications and job posts are also removed (cascading delete).





## 2. Job Searching and Filtering

Users can efficiently search and filter jobs based on multiple parameters. Job postings with fields such as title, description, location, salary, experience, date of posting, and employment type can be searched or filtered easily.

### *Database Operations:*

- When a user searches for jobs, a text-based search is performed on job titles and descriptions.
- Filter jobs by location using a simple query on the location field.
- Filter by salary range (\$gte and \$lte queries in MongoDB).
- Filter by employment type, experience level, and date of posting using index-based lookups.



## 3. Applying for jobs (Job Seekers)

Users can apply for jobs as well as track the jobs they have applied for by checking whether they have been selected for an interview or not.

### *Database Operations:*

- When a user applies for a job, their application is added to the database.
- Job seekers can retrieve a list of jobs they have applied for.
- Employers can update the status of applications (e.g., "Under Review", "Interview Scheduled", etc.).
- If a job is deleted, all associated applications are removed.





## 4. Job Management (Employers)

Users can also be Employers and can create, read, update, and delete job postings as per their needs.

### *Database Operations:*

- Employers can add a new job listing to the database.
- The system retrieves job listings for job seekers.
- Employers can modify existing job details.
- Employers can remove job postings (this also deletes any associated applications).



## 5. Job Tracking (Job Seekers)

Users can view a history of jobs they've applied for as well as check the status of the job's selection status. Employers can track applicants for their job listings and select whoever they see fit for their company.

### *Database Operations:*

- Users can view a list of jobs they have applied to by querying the database with their user\_id.
- Display the number of applications submitted by each user.



# TECH STACK FOR CHAKRI PAO

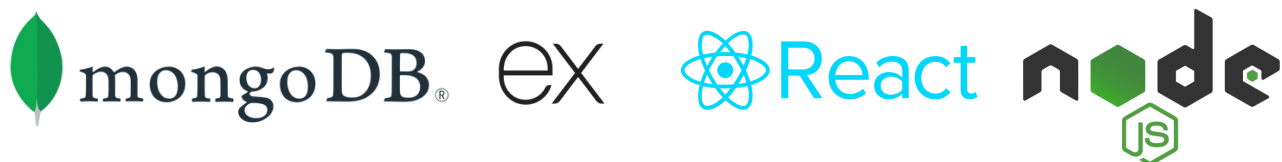


## THE TECH STACK MIGHT CHANGE WHILE BUILDING THE WEB APPLICATION

For Frontend (User Interface) of **Chakri Pao**, I am selecting React.js for a robust, responsive and interactive UI. Tailwind CSS will play a major role for creating a modern, clean, minimal, easy-on-eye and efficient styling.

For Backend (Server & API), nothing comes to mind other than Node.js & Express.js for its wide usability and handling backend logic and API requests.

For Database, the best that serves the purpose and goals of the **Chakri Pao** web application, MongoDB. It is more than efficient and robust for storing user data, job listings, applications, resumes and will play the most significant role in making the application.



Overall, **Chakri Pao** web app provides a seamless experience for both job seekers and employers, offering essential features such as job posting, editing, applying, and searching. With a structured database ensuring efficient data management and seamless user interactions, the platform simplifies the hiring process while maintaining security and scalability.

Built with the MERN stack and Tailwind CSS, this application delivers a modern, responsive, and dynamic user experience. From CRUD operations to real-time job applications, it ensures an intuitive workflow for all users.

This project is a solid foundation for a professional job portal, making it an excellent portfolio piece while demonstrating full-stack development expertise.

**Chakri  
Pao**



**YOUR ONE STOP JOB PORTAL**