CAREER INFORMATION AND RECRUITMENT PORTAL

PROJECT REPORT

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to

the University of Calicut

in partial fulfilment of the requirements for the award of the Degree

of

**Bachelor of Technology**

in

Information Technology



Department of Information Technology

Institute of Engineering and Technology, University of Calicut, Thenjipalam

Kerala

July 18, 2020

DECLARATION

We undersigned hereby declare that the project report **Career Information and Recruitment Portal**, submitted for partial fulfilment of the requirements for the award of degree of Bachelor of Technology of the University of Calicut, Kerala is a bonafide work done by us under supervision of **Ms. Sruthimol M P**. This submission represents our ideas in our own words and where ideas or words of others have been included, we have adequately and accurately cited and referenced the original sources. We also declare that we have adhered to ethics of academic honesty and integrity and have not misrepresented or fabricated any data or idea or fact or source in our submission. We understand that any violation of the above will be a cause for disciplinary action by the institute and/or the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been obtained. This report has not been previously formed the basis for the award of any degree, diploma or similar title of any other University.

**Place:** Thenjipalam

**Date:** July 18, 2020

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CERTIFICATE

This is to certify that the report entitled **"CAREER INFORMATION AND RECRUITMENT PORTAL",** submitted by **Jincy P Janardhanan, Aleena Sunny, Alka Bhagavaldas K, Ameena Shirin** to the **UNIVERSITY OF CALICUT** in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Information Technology is a bonafide record of the project presented by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

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| --- | --- |
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ABSTRACT

This scheme aims to develop a web application to connect colleges, recruiters, students, and alumni on a single platform. It helps colleges for efficient management of their placement cell. Recruiters can use this application for their HR hiring activities related to campus recruitment. Students and alumni can further stay informed about various career choices available for them using the information portal. Finding jobs after graduation that best suits their interests and skill set is quite a challenging task for students or alumni. The difficulties in job finding arise from not having proper knowledge of the organization’s objective, their work culture, and current job openings. Discerning the best candidate amongst the list of candidates is a primary responsibility for the recruiters. The web application provides an easy and convenient search feature for students or alumni to find their desired jobs and for recruiters to find the right candidate. Students and alumni can conveniently use this web portal for job seeking. Colleges verify student and alumni information before registering them on the platform. A server admin verifies college and recruiter registration on the platform. Only alumni can update their details on their own, whereas students cannot. The recommendation system available in the web application is very advantageous for students and alumni. The web application automatically generates a CV for students and alumni using their details and information, which can be attached to their job applications. A web application to find and apply for a job is easy to use as a substitute for a manual and paper-based method.

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Abbreviations

# Introduction

When the first digital computers appeared in the early 1940s,[5] the instructions to make them operate were wired into the machine. Practitioners quickly realized that this design was not flexible and came up with the "stored program architecture" or von Neumann architecture. Thus the division between "hardware" and "software" began with abstraction being used to deal with the complexity of computing.

Programming languages started to appear in the early 1950s[6] and this was also another major step in abstraction. Major languages such as Fortran, ALGOL, PL/I, and COBOL were released in the late 1950 and 1960s to deal with scientific, algorithmic, and business problems respectively. David Parnas introduced the key concept of modularity and information hiding in 1972[7] to help programmers deal with the ever-increasing complexity of software systems.

## Problem Statement

## Motivation and Objective

# Literature Review

## Existing Methodologies

# Proposed System and Feasibility Study

## Proposed Solution

## Technical Feasibility

## Operational Feasibility

## Economic Feasibility

## Schedule Feasibility

# Requirements Gathering and Analysis

## End User Specification

## Software Specification

## Hardware Specification

## SRS Document

# System Design

## System Architecture

## Interface Design

## Data Flow Diagrams

## Data Dictionary

# Implementation

## Module Description

* User: A Module that implements all common features of any general users. Functionalities provided by this module are as follows:
* Login
* Request forgot password

Submodules of user

* Privileged user: A module to implement the common features of College, Recruiter, and Alumni (Privileged Users). Functionalities provided by this module are as follows:
* opt out
* Update details
* Registration
* Recommend student/alumni
* College: A module that implements specific features for College, Privileged User Interface, Recommend interface from Recommendation Module. Functionalities provided by this module are as follows:
  + - * + Add a new student
        + Add alumni student
        + Update student details
* Student: A module that implements specific features for student and alumni, Request Recommendation interface from Recommendation module, and chat module. Functionalities provided by this module are as follows:
* Personalization
* Follow
* Job feed
* Notification
* Apply for jobs
* Alumni: A module that implements specific features for alumni and Privileged User Interface. NO ADDITIONAL FUNCTIONS REQUIRED.
* Recruiter: A module that implements specific functionalities for Recruiter, Privileged User Interface, Recommend interface, and Chat module. Functionalities provided by this module are as follows:
* Create job listings
* Edit/ delete job listing
* Review CV
* Review application
* Recommendation: A module for requesting and recommending student/alumni, which provides access only via interfaces. Functionalities provided by this module are as follows:
* Recommendation
* Request recommendation
* Recommend
* Chat: A module that allows recruiters and students/alumni to communicate with each other. Functionalities provided by this module are as follows:
* Send messages
* Receive messages
* Administrator: A module to implement functionalities for Server Admin. Functionalities provided by this module are as follows:
* Verify / Cancel College and Recruiter Registration
* Server: A module to implement functionalities for server-only functionalities (without human interaction). Functionalities provided by this module are as follows:
* Handle Opt-Out Requests of Colleges and Recruiters
* Close Active Login Sessions with No Activity for a Long Duration
* Handle Forgot Password Requests
* Information: A module that implements functional requirements of career information. It is used for serving web pages related to various career opportunities for a student or alumni.