JOB GARAGE BANGLADESH

A Freelancing Web Portal

Topic: A Report about CEP Mapping

Course Name: Software Engineering

Course Code: CSE - 322

Team Member

Protiva Arafin (18201011)

Nowshin Islam Nova (18201015)

Mir Arnab Kabir (18201018)

Aiatul Al-Amin Ador (18201019)

Motivation

Sometimes in our life, we need jobs for money or experience. We want to do jobs in more than one company to gather experience or money. On the other hand, companies need people for their minor works. So we need a connection between job seekers and job givers. For solving this problem, our website will be very helpful.

Objective

The main objective of the project is to change the manual way of operation of the job application to an automatic system. Also, this system will be a breakthrough for the freelancing job market in Bangladesh.

Critical Challenges

After working and analyzing it, we realized that we are going to face a lot of challenges.

Those critical challenges can be:

Identity & Job Verification: We have to be sure who is providing a job and the job is not illegal and not fake. Also, Two-step verification is much needed.

Payment Security: We have to be careful about the payment gateway. Because everything is based on the internet.

Database Management: There will be a lot of data, so we have to create a strong database system for security and service.

Conflicting Requirments

To avoid fake jobs, there are some authentic processes that a job giver has to maintain. If a job giver fails to go through the processes, even if the job is authentic, he/she can’t submit jobs.

Knowledge Profile

K	Knowledge Profile
K1	Natural Science
K2	Mathematics
K3	Engineering Fundamentals
K4	Specialist Knowledge
K5	Engineering Design
K6	Engineering Practice
K7	Comprehension
K8	Research Literature

Ps are Addressed through the project and mapping among Ps, COs, and POs

Ps	Attribute	How Ps are addressed through the project	CO	PO
P1	Depth of Knowledge Required	The project requires rigorous study of all the existing Job Platform also Feasibility Research (K8-Research Literature), Surveys about Jobs, Job Provider, Job Seeker (K3-Engineering Fundamentals, K4-Specialist Knowledge), System Analysis, Back-end (HTML, CSS, BOOTSTRAP, JQUERY), Front-end (PYTHON & DJANGO, and Database design (JQUERY) (K5-Engineering Design, K6-Engineering Practices).	CO1 CO3 CO5 CO7 CO10	PO1 PO2 PO3 PO5 PO9 PO10
P3	Depth of	Depth of analysis of requirements about	CO2	P2

	Analysis Required	all Job, Job Provider, and Job Seeker needed to ensure user satisfaction.	CO4 CO5	P9 PO10 PO12
P4	Familiarity of Issues	This project solves an engineering problem that is deeply associated with the business & economic industry.	CO6 CO9	PO6 PO7
P6	Extend to stakeholders	Diverse groups, 1. Job Seeker 2. Job Provider Monitoring authorities need to have access to monitor if any unfair means of conduct and take necessary actions.	CO6	PO8 PO11
P7	Interdependence	Our project involves interdependent components such as feasibility analysis, requirement analysis, designing both back-end and front-end, database design, various interfaces, etc.	CO8 CO9	PO12

Addressing Complex Activities (A,s) through the project

A's	Attribute	How A's are addressed through the project
A1	Level of Interaction	Interaction between developers amongst themselves takes place as well as between developers and senior Python or Django framework developers.
A3	Innovation	The website needs to be updated with innovative and creative ideas to meet the feedback from every type of user.
A5	Familiarity	The project deals with a web engine based on a python framework for students.

CO-PO Mapping

CO Number	Project Statements Upon successful completion of the project, students should be able to:	Corresponding POs
CO-1	On this project, we have analyzed, designed, developed, and evaluate the whole system with the proposed specifications and requirements.	Engineering Knowledge
CO-2	By Investigating and analyzing we have made our system more reliable, secured, and user-friendly. We have also added some features which are based on customers' needs and demands.	Investigation
CO-3	We have used some modern tools to develop this system. Examples: PyCharm Visual Studio Code Python Django SQLite Github	Modern Tool Usage
CO-4	This project developed with the concept of professional ethics, confidentiality, industrial standards, risk-benefit analysis, and the impact of engineering solutions in social safety, data safety, and welfare.	The Engineer And Society
CO-5	The target of our project is to make a secure and hassle-free platform which have an impact on the family and society. Besides that, we want to track inventory, control the cost & benefit of the project.	Environment and Sustainability
CO-6	Assess professional, ethical, and social impacts and responsibilities of the design project.	Ethics
CO-7	This project was continuously developed with a team and individual working. Each member of the	Individual and Teamwork

	team works on the different components. Someone performed all types of analysis. someone has done the design and Front-End coding, and the other members have taken care of the testing Portion.	
CO-8	We have proposed the project with a proposal and in the end, this project comes with documentation and demonstrated by the presentation.	Communication
CO-9	We have done identified sub-problems, prepare a suitable project timeline using project management skills.	Project Management And Finance
CO-10	In this project, we have identified a real-life problem and that can be converted into a computing solution through design, analysis, development, and validation. these are some lifelong learning outcomes for all of our teammates.	Lifelong Learning

Appendix-1:

Washington Accord Program Outcomes (PO) for engineering programs:

Number	PO	Characteristic
1	Engineering Knowledge	Breadth and depth of education and type of knowledge, both theoretical and practical
2	Problem Analysis	Complexity of analysis
3	Design of solutions	Breadth and uniqueness of engineering problems i.e. the extent to which problems are original and to which solutions have previously been identified or codified
4	Investigation	Breadth and depth of investigation and experimentation

5	Modern Tool Usage	Level of understanding of the appropriateness of the tool
6	The Engineer and Society	Level of knowledge and responsibility
7	Environment and Sustainability	Type of solutions.
8	Ethics	Understanding and level of practice
9	Individual and Teamwork	Role in and diversity of the team
10	Communication	Level of communication according to a type of activities performed
11	Project Management and Finance	Level of management required for differing types of activity
12	Lifelong learning	Preparation for and depth of Continuing learning.