WORKLORD

PROJECT REPORT

Submitted by

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to

the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree

of

Master of Computer Applications



Department of Management Studies Computer Applications

KMCT College of Engineering
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DECLARATION

I undersigned here by declare that the project report "WORKLORD", submitted for partial fulfillment of the requirements for the award of degree of Master of Computer Applications of the APJ Abdul Kalam Technological University, Kerala is a bonafide work done by me under supervision of Mr. Ajayakumar K K. This submission represents my ideas in my own words and where ideas or words of others have been included, I have adequately and accurately cited and referenced the original sources. I also declare that I have adhered to ethics of academic honesty and integrity and have not misrepresented or fabricated any data or idea or fact or source in my submission. I 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.

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CERTIFICATE

This is to certify that the report entitled WORKLORD submitted by MOHAMMED ALTHAF T (LKMC18MCA026), ANJUSHA BJ (KMC18MCA002) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications is a bonafide record of the project work carried out by him 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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ABSTRACT

Technology has changed the way job seekers search for jobs and employers find qualified employees. While employers still advertise job openings through traditional advertising mediums, today employers and job seekers turn to online job portals to find employment matches. Job seekers can advertise their skills and search for available positions and employers can announce employment openings through job portals.

The proposed system "WORK LORD" is a web based application to give the job seekers a platform for finding right and satisfactory job according to their qualification and skills. It also connect the job seekers with the major companies. This application is mainly focused on the applicants, who are seeking jobs in CS (Computer Science) field. Job seekers can register themselves with resume at the website where as the employers register in the website and put job vacancies at their company. Employers can also browse through the posted resumes and user performance. The system provides jobs catalogue and information to members. The Admin and employers can keep the catalogue updated all the time so that the job seekers get the updated information all the time.

There are many job portals that claims to provide you the best job, but none of them address the issues faced by the job seekers. They face issues because of work experience, because Companies give more priority for experienced job seekers. And they are not calculating the skill level of the job seekers. In this project we provide the Job Seeker to express their skills by completing the tests provided by admin which helps employer to understand their skills in their fields easily. Also they will be getting tasks to complete for measuring their performance. Most scored/skilled persons will be highlighted top and gets faster job opportunities such as preferred employer, preferred technology should be there. Calculating skills will be a great option for freshers to seek jobs. The issues faced by freshers can solved by implementing these features in the web application. The priority based oppertunities can be avoided by this. In our project we will be focusing on changing such attitude towards freshers.

Chapter 1

INTRODUCTION

The quality of people hired for a specific job is usually the key issue when measuring the effectiveness of the employment. However, in certain circumstances the speed of hiring is also an issue and also contribute to quality hiring. The rationale of a hiring process is to stretch out to potential employees and bring out the specific kind of required skills and experiences in the field organization. Online job portal system is fundamental in removal of paper works and introduction of workflow systems that connect job seekers and employers. At a very low cost, the internet offers employers and job searchers access to detailed and up-to-date information about job vacancies in different locations around the world.

WORKLORD project is aimed at developing a job portal friendly for non-experienced and experienced job seekers. The system project is an online web application which can be accessed from anywhere only with a proper login verification. Job seekers should be able to login and upload their resume and update their contact details. There are many job portals that claims to provide you the best job, but none of them address the real issues faced by the non-experienced job seekers. Companies give higher priority for experienced job seekers. They failes calculate the skill level of the job seekers.

In this project we insist the Job Seeker to complete specific tests provided by the admin which helps employer to understand job seeker's skills and performance in their fields. Also they will be getting tasks to express their performance and efficiency. Most scored/skilled persons will be getting more priorities, Options such as top scored candidate, preferred employer, preferred technology should be there. Calculating skills will be a great option for freshers to seek jobs. The issues faced by the new job seekers to find a perfect job with their skills is difficult. In our project we will try to change such attitude from companies towards freshers. This system gives the company to search for the best candidate available on the fields.

Chapter 2

LITERATURE SURVEY

2.0.1 Job Procurement

Old and New Ways Job seeking usually involves different ways to look for jobs such as through personal contacts, direct telephone calls to employers, job agency office, scanning online job listings etc. Before the Internet, became widely uses as a method of seeking jobs, jobseekers spent a lot of time using various methods to look for job openings. Today, jobseekers use online methods which are very convenient and save a lot of time. Eleanna Galanaki lists the following methods to be the traditional (old) ways for recruitment:

- Employment recruitment agencies
- Job fairs
- Advertising in the mass media such as newspapers
- Advertisement in television and radio
- Management Consultants
- Existing employee contacts
- Schools colleges or universities students services department
- Workers or professional referrals

These old job seeking methods are too slow, stressful, challenging and also lack quality. In addition, the applicants have to consider the cost and the amount of time to get the information they need, and other preparations they have to make. Finding all available job vacancies is a main step at in the job-seeking process. The Internet is now a powerful tool that jobseekers can use. Today, there are many sites that advertise job positions to be filled by people with certain skills in various fields. The Internet plays an important role in the area of human resource planning and development. Most organizations are now using computer technology and the Internet for staff recruitment. Although the Internet has facilitated the process of job-seeking, it has not replaced the traditional methods, completely.

2.0.2 Importance of Job Portals

In the age of technology, the Internet has become the main source of information for jobseekers. Large corporations, institutions, and universities include information on career prospects on their websites. According to a survey, 70% of the workforce uses websites or portals on the Internet to search for jobs in France. These websites or portals provide a search engine to access information on job opportunities. The most employers are keen to use online recruitment methods of getting staff. It mentions that the online recruitment methods have the ability to identify the best applicants. That is the reason why more developed countries such as Malaysia have started to use online job portal as one of the important way to recruit people to fill job vacancies. A study done in 2006, found that 21% of internet users in the EU used the web to search for jobs or to send job applications. In 2007, this had increased to 67% for unemployed people.

2.0.3 Features of Job Portals

One of the ways to improve employment mobility is to provide online job offer services. Online job portals can help jobseekers as they contain all required information about available vacancies in a single point. Such portals enhance efficiency in job recruitment as applicants can match their qualifications and skills to the requirements of employers. Generally, searching for jobs on the internet involves a process of information collecting because the job seeker gathers information contained in the job portals, during the search. A good job portal shares information and experiences with its members/users. This save time and efforts and better decisions can be made. Job openings requirements can be matched to an applicant's qualification and skills. In this way, job portals return not only the precise matches but also return the most similar match. The members of the European Commission (EC) stated that online job portals should have quite similar characteristics that include an online searchable database of positions for job searcher, facilities to send CVs to the website, email alerts of jobs which match the users profile, extra instruction, for example, about working in foreign countries or career guidance, the capability to manage job applications, employers must have the ability to publish and manage job positions, search the CV database, and have online contact with potential jobseekers.

2.0.4 References

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Chapter 3

SYSTEM ANALYSIS

3.1 Existing system

The traditional hiring of employees starts with the processing of application forms, describe the job for each position, verify application forms and lastly evaluate the best person for the job. The whole process from advertisement to hiring a quality applicant takes a lot of time, effort and also has more weakness. The advertisement itself is costly especially when done through print media. therefore, the publication of the job adverts will only last for a very short time and in that case few people will have seen the job vacancy. Thus, the traditional recruitment process is not be the best in today's competitive job market.

The question here is how this could be made efficient and possible. This question or problem solved by an online job portal system which is set to transform the way in which companies and other employers recruit their employees. The Job seeker Functions concentrates on the consistent information that is practically, part of the organizational activities and which needs proper authentication for the data collection. The users can perform some tasks without registering or without entering into the application. He can search for the jobs in the site. He can view the information which is available for the job seekers. Also view the walk-in details. The job seeker can perform some tasks only after entering into the application. In any situation the job seeker needs to change his password then he can change on his own. He can view the details of his own profile and he can modify his details in his profile. The employer can view his own profile and they can also post new job vacancies and they can view the candidates resumes applied for jobs. The admin functions concentrates on maintain the functionality of site. Proper management of complete job seeker section and employer section is his responsibility.

3.2 Proposed system

The proposed system "WORKLORD" is a web based application is to give the job seekers a platform for finding right and satisfactory job according to their qualification and skills. It also connect the job seekers with the major companies. Job Portal is a platform that joins recruiters and the job seekers to complete their goals and requirements. Recruiters look for a right candidate who has the right qualification to handle the responsibilities efficiently. On the other hand, job seekers want a job where they can apply their skills and knowledge to grow their professional career. Most of the jobseekers who're actively seeking new employment opportunities are believed to be registered on multiple job portals. Finding a job opportunity per your choice and qualification through a job portal is relatively easier. There are many job portals that claims to provide you the best job, but none of them address the issues faced by the new job seekers. Most of portals give higher priority for experienced job seekers.

Job portals requires features like profile management, view notifications and other filtering options to match with the company with their skills. The users can perform some tasks without registering like he can search for the job vacancies, walk-in details which available in the notifications section. The job seeker can perform some tasks only after registration. After registering he can attend for tests and complete tasks. He can also view and modify his profile and also he can change his password. The employer can view their profile and they can post new job vacancies. They can also view the candidates resumes applied for jobs. The admin functions concentrates on maintaining the functionality of site. Proper management of complete job seeker section and employer section is his responsibility. He also provides tasks and updates test datas. Users analytics shows you a compiled listing of all users and the time they have spent using their Skills. Users analytics is one of the more important analytics sets when they are trying to calculate skills relating to an individual. We can check into a particular individual's performance and see how they are performing. Many companies prefer employees with good experiences and reputation in their previous job rather than freshers. This causes issues with finding jobs for freshers with right skills. In this project we will be trying to change such attitude towards freshers. This system facilitate the company to search for the best candidate available and employ them as employers to improve efficiency on the employment sector.

3.3 Module Description

3.3.1 User

- Search for Job Posts
- Apply Online for Job Posts
- Attend Exams in the website
- Complete Tasks
- Update Profile and Resume
- Send Reply to Applied Job's Company
- View Application's Status
- View Scores in Exams and Task

3.3.2 Company

- Add Job Posts
- Review Applications
- Download Applicant's Resume
- Contact Applicant
- View Messages from User
- View Exams and Task Scores

3.3.3 Admin

- Manage Active Jobs
- Manage Users
- Manage Companies
- Add Exams and Update Questions
- Add Tasks
- Review Task
- View Task/Exam Scores

3.4 Feasibility Study

3.4.1 Operational Feasibility

This Project is beneficial to people who wants to meet the qualifications of theirs and company's requirements. There's not much difficulty in, implementing the proposed system, It is so more effective, user friendly and functionally reliable to everyone. WORK-LORD job portal is beneficial for every new job seekers, They can access this web portal from any where. This website can be accessed from any devices like laptop or smartphone with internet connection. Any of the user with good internet connection can register the website and complete tests and wait for right company to pick them up, users can make use of this portal by completing tasks which improves their skills.

3.4.2 Technical Feasibility

Technical Feasibility study deals with the hardware as well as software requirements. We have to determine whether the project done with the current technology has been examined in the feasibility study. The proposed system requires software like gedit and web server solution application called Xampp both are available for free. The website can also be easily upgraded to the higher level with less effort and maintenance. This website can be easily accessed with user's smartphone from anywhere with internet connection and portal is very much user friendly. Hence the Proposed system is technically feasible.

3.4.3 Economic Feasibility

Economic feasibility determines whether the proposed system is capable of generating profit for an organization. It involves cost incurred on the development team, estimated cost of hardware and cost of performing feasibility study and so on, this website was developed with the available resources. Since cost of input for the system is almost zero. The output of the website is always a profit for the user and we see this as a service. This website doesn't cost any charge from the job seeker who is accessing it. Since the website can be accessed from any device with internet connection there is no need for a specific hardware. Hence it is economically feasible.

3.5 System Environment

- Back-end : PHP,MYSQL(Database)

- Front-end : Javascript, Bootstrap, Html, CSS

3.5.1 Minimum Requirements (User)

- Computer/Laptop/Mobile

- Any OS with Updated Browser

- Stable Internet Access

3.5.2 Minimum Requirements (Developer)

- Processor : Intel Pentium/Celeron or newer

- Memory: 2 GB RAM

- Storage: 20 GB HDD/SSD (Recommended)

- Operating System : Linux

- Text Editor : Gedit

- Web server solution : Xampp

- Browser : Chrome

- Other Utils: Git

- Stable Internet Access

3.6 Actor and Their Roles

3.6.1 User

- Register
- Login
- Attend Tests
- Complete Task
- Edit User details
- Apply for Jobs
- Reply Messages from Company
- View Scores

3.6.2 Company

- Register
- Login
- Edit Company details
- View qualified users
- Add Job Posts
- Review Job Applications
- Download Resumes
- Send Messages to Applicants

3.6.3 Admin

- Login
- View/Edit Users
- Approve Companies
- View/Edit Jobs
- Add Exams and Update Questions
- Add New Tasks
- Review Tasks

Chapter 4

METHODOLOGY

4.1 Introduction

This project follows Agile methodology. Agile software development comprises various approaches to software development under which requirements and solutions evolve through the collaborative effort of self organizing and cross-sectional teams and their customers/end users. It advocates adaptive planning, evolutionary development, early delivery and continuous improvement and it encourage rapid and flexible response to change.

4.2 UML Diagrams

4.2.1 Activity Diagram

- USER

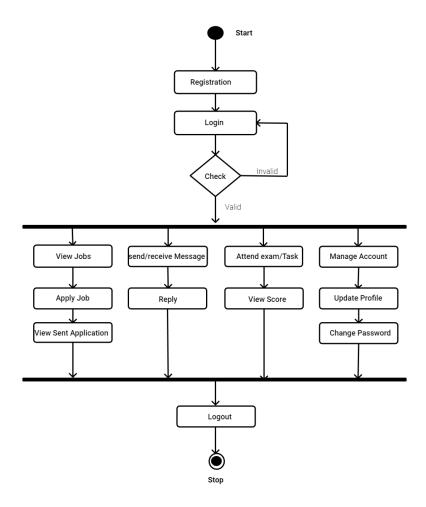


Figure 4.1: User's Activity Diagram

- COMPANY

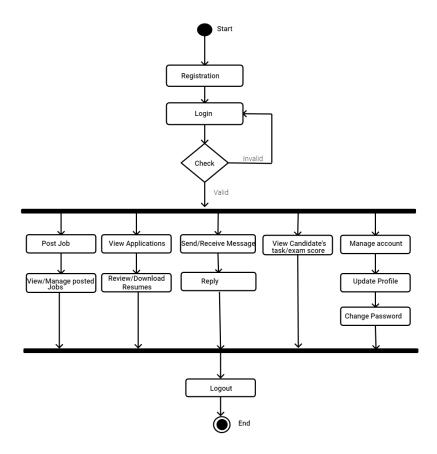


Figure 4.2: Company's Activity Diagram

- ADMIN

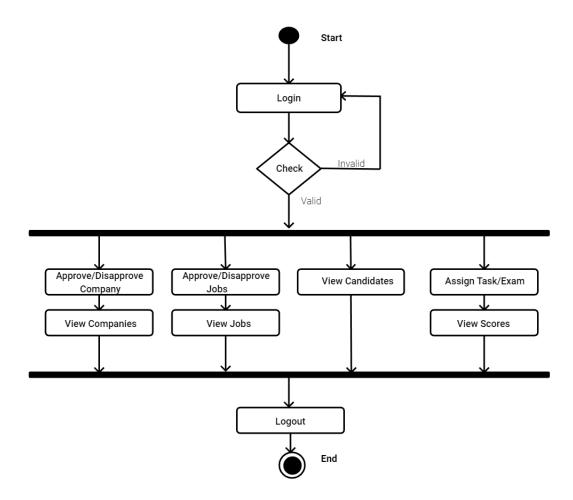


Figure 4.3: Admin's Activity Diagram

4.2.2 UseCase Diagrams

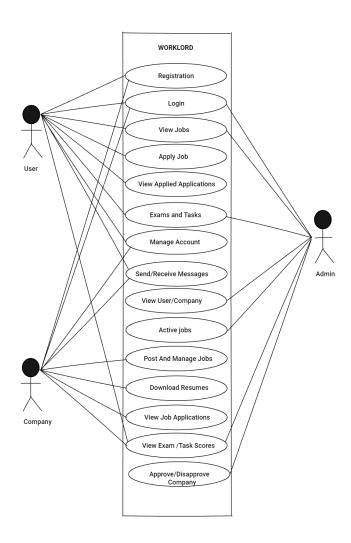


Figure 4.4: UseCase Diagram

4.3 User Story

| User | As a <type of="" users=""></type> | I want to <perform< th=""><th>So that I can <achieve< th=""></achieve<></th></perform<> | So that I can <achieve< th=""></achieve<> | | | | |
|----------|-----------------------------------|---|---|--|--|--|--|
| story ID | | some task> | some goal > | | | | |
| 1 | Admin/User/Company | Home Page | Go to other activities | | | | |
| 2 | User/Company | Registration | Access the system | | | | |
| 3 | Admin/User/Company | Login | Access the system | | | | |
| 4 | Admin | View companies | View companies | | | | |
| 5 | Admin | Approve, Disapprove | Manage companies | | | | |
| | | company | | | | | |
| 6 | Company | Post jobs | Add Job vaccancies | | | | |
| 7 | Admin | View jobs, Delete | Manage jobs | | | | |
| | | Jobs | | | | | |
| 8 | User | Search jobs, View | Search jobs, View | | | | |
| | | jobs, Apply job, View | jobs,Apply job,View | | | | |
| | | job applications | job applications | | | | |
| 9 | Company | View posted jobs | Manage posted jobs | | | | |
| 10 | Company | View applica- | View job applica- | | | | |
| | | tions,Download | tions,Download Resumes | | | | |
| | | Resumes | | | | | |
| 11 | Admin | Create exams,Add | Create exams, Add ques- | | | | |
| | | questions | tions | | | | |
| 12 | Admin | Create tasks | Create tasks | | | | |
| 13 | User | Attend exam | Attend exam | | | | |
| 14 | Admin | View candidates | View candidates | | | | |
| 15 | User | Attend task | Attend task | | | | |
| 16 | Admin/User/Company | View exam,task | Understand knowledge, | | | | |
| | | scores | skills of candidates | | | | |
| 17 | User/Company | Send and Receive | Send/Receive Messages | | | | |
| | | Messages | | | | | |
| 18 | User/Company | Manage account | Update Profile, Change | | | | |
| | | | Password | | | | |

Figure 4.5: User Story

4.4 Product Backlog

| USER STORY ID | PRIORITY (LOW,HIGH, MEDIUM) | SIZE | SPRINT | STATUS (PLANNED, PRO- GRESSED, COM- PLETED) | RELEASE DATE | RELEASE GOAL |
|---------------------|-----------------------------------|------|--------|--|-----------------|---|
| 1 | HIGH | 8 | | Planned | 15-09-2020 | Login to the system |
| 2 | HIGH | 7 | 1 | Planned | 18-09-2020 | Access the system |
| 3 | HIGH | 8 | | Planned | 20-09-2020 | Access the account |
| 4 | MEDIUM | 8 | - | Planned | 23-09-2020 | View companies |
| 5 | HIGH | 5 | | Planned | 27-09-2020 | Manage companies |
| 6 | HIGH | 7 | | Planned | 30-09-2020 | Add job vac- canices |
| 7 | HIGH | 6 | 2 | Planned | 04-10-2020 | Manage jobs |
| 8 | MEDIUM | 10 | | Planned | 10-10-2020 | Search jobs,View jobs,Apply job,View job applications |
| 9 | HIGH | 6 | | Planned | 11-10-2020 | Manage posted jobs |
| 10 | HIGH | 9 | 3 | Planned | 14-10-2020 | View applica- tions,Download Resumes |
| 11 | MEDIUM | 6 | | Planned | 19-10-2020 | Create ex- ams,Add ques- tions |
| 12 | HIGH | 6 | | Planned | 22-10-2020 | Create tasks |
| 13 | MEDIUM | 6 | | Planned | 26-10-2020 | Attend exams |

| USER | PRIORITY | SIZE | SPRINT | STATUS | RELEASE | RELEASE | |
|-------|------------|------|--------|-----------|------------|--------------|--|
| STORY | (LOW,HIGH, | | | (PLANNED, | DATE | GOAL | |
| ID | MEDIUM) | | | PRO- | | | |
| | | | | GRESSED, | | | |
| | | | | COM- | | | |
| | | | | PLETED) | | | |
| 14 | MEDIUM | 10 | | Planned | 28-10-2020 | View Candi- | |
| | | | | | | dates | |
| 15 | HIGH | 10 | 4 | Planned | 31-10-2020 | Attend task | |
| 16 | MEDIUM | 7 | | Planned | 02-11-2020 | Understand | |
| | | | | | | knowledge, | |
| | | | | | | | |
| | | | | | | dates | |
| 17 | HIGH | 8 | | Planned | 05-11-2020 | Send/Receive | |
| | | | | | | Messages | |
| 18 | HIGH | 8 | | Planned | 08-11-2020 | Update Pro- | |
| | | | | | | file, Change | |
| | | | | | | password | |

Figure 4.6: Product Backlog

4.5 Project Plan

| USER | TASK NAME | START | END | DAYS | STATUS |
|-------|-----------|------------|------------|------|-----------|
| STORY | | DATE | DATE | | (TO BE |
| ID | | | | | FILLED |
| | | | | | BY SCRUM |
| | | | | | MASTER) |
| 1 | | 14-09-2020 | 15-09-2020 | 2 | Completed |
| 2 | | 16-09-2020 | 18-09-2020 | 3 | Completed |
| 3 | SPRINT 1 | 19-09-2020 | 20-09-2020 | 2 | Completed |
| 4 | | 21-09-2020 | 23-09-2020 | 3 | Completed |
| 5 | | 24-09-2020 | 27-09-2020 | 4 | Completed |
| 6 | | 28-09-2020 | 30-09-2020 | 3 | Completed |
| 7 | | 01-10-2020 | 04-10-2020 | 4 | Completed |
| 8 | SPRINT 2 | 05-10-2020 | 10-10-2020 | 6 | Completed |
| 9 | | 11-10-2020 | 11-10-2020 | 1 | Completed |
| 10 | | 12-10-2020 | 14-10-2020 | 3 | Completed |
| 11 | | 15-10-2020 | 19-10-2020 | 5 | Completed |
| 12 | SPRINT 3 | 20-10-2020 | 22-10-2020 | 3 | Completed |
| 13 | | 23-10-2020 | 26-10-2020 | 4 | Completed |
| 14 | | 27-10-2020 | 28-10-2020 | 2 | Completed |
| 15 | | 29-10-2020 | 31-10-2020 | 3 | Completed |
| 16 | SPRINT 4 | 01-11-2020 | 02-11-2020 | 2 | Completed |
| 17 | | 03-11-2020 | 05-11-2020 | 3 | Completed |
| 18 | | 06-11-2020 | 08-11-2020 | 3 | Completed |

Figure 4.7: Project Plan

4.6 Sprint Backlog Planned

4.6.1 Sprint 1

| Backlog items | Completion date | Original Estimated | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 | Day 11 | Day 12 | Day 13 | Day 14 |
|-------------------|-----------------|-----------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | hours | 14/9/ 2020 | 15/09/ 2020 | 16/09/ 2020 | 17/09/ 2020 | 18/09/ 2020 | 19/09/ 2020 | 20/09/ 2020 | 21/09/ 2020 | 22/09/ 2020 | 23/09/ 2020 | 24/09/ 2020 | 25/09/ 2020 | 26/09/ 2020 | 27/09/ 2020 |
| User Story 1 | | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
| Form Design | 15-09-2020 | 4 | 2 | 2 | | | | | | | | | | | | |
| Table Creation | 15-09-2020 | 3 | 1 | 2 | | | | | | | | | | | | |
| Coding | 15-09-2020 | 2 | | 2 | | | | | | | | | | | | |
| Testing | 15-09-2020 | 1 | | 1 | | | | | | | | | | | | |
| User Story 2 | | | | | | | | | | | | | | | | |
| Form Design | 17-09-2020 | 5 | | | 3 | 2 | | | | | | | | | | |
| Table Creation | 18-09-2020 | 4 | | | 2 | 1 | 1 | | | | | | | | | |
| Coding | 18-09-2020 | 3 | | | 1 | 2 | | | | | | | | | | |
| Testing | 18-09-2020 | 1 | | | | | 1 | | | | | | | | | |
| User Story 3 | | | | | | | | | | | | | | | | |
| Form Design | 19-09-2020 | 3 | | | | | | 3 | | | | | | | | |
| Table Creation | 20-09-2020 | 4 | | | | | | 2 | 2 | | | | | | | |
| Coding | 20-09-2020 | 2 | | | | | | 1 | 1 | | | | | | | |
| Testing | 20-09-2020 | 1 | | | | | | | 1 | | | | | | | |
| User Story 4 | | | | | | | | | | | | | | | | |
| Form Design | 22-09-2020 | 6 | | | | | | | | 3 | 3 | | | | | |
| Table Creation | 23-09-2020 | 3 | | | | | | | | 2 | 1 | | | | | |
| Coding | 23-09-2020 | 4 | | | | | | | | | 2 | 1 | | | | |
| Testing | 23-09-2020 | 1 | | | | | | | | | | 1 | | | | |
| User Story 5 | | | | | | | | | | | | | | | | |
| Form Design | 25-09-2020 | 6 | | | | | | | | | | | 3 | 3 | | |
| Table Creation | 25-09-2020 | 3 | | | | | | | | | | | 2 | 1 | | |
| Coding | 26-09-2020 | 5 | | | | | | | | | | | | 3 | 2 | |
| Testing | 27-09-2020 | 1 | | | | | | | | | | | | | | 1 |

Figure 4.8: Sprint 1

4.6.2 Sprint 2

| Backlog | Completion | Original | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day |
|--------------------|------------|-----------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| items | date | Estimated | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | hours | 28/9/ | 29/09/ | 30/09/ | 01/10/ | 02/10/ | 03/10/ | 04/10/ | 05/10/ | 06/10/ | 07/10/ | 08/10/ | 9/10/ | 10/10/ | 11/10/ |
| | | | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 |
| User | | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
| Story 6 | | | | | | | | | | | | | | | | |
| Form | 29-09-2020 | 4 | 2 | 2 | | | | | | | | | | | | |
| Design | | | | | | | | | | | | | | | | |
| Table | 29-09-2020 | 2 | 1 | 1 | | | | | | | | | | | | |
| Creation | | | | _ | _ | | | | | | | | | | | |
| Coding | 30-09-2020 | 4 | | 2 | 2 | | | | | | | | | | | |
| Testing | 30-09-2020 | 2 | | | 2 | | | | | | | | | | | |
| User | | | | | | | | | | | | | | | | |
| Story 7 | | | | | | | | | | | | | | | | |
| Form | 02-10-2020 | 4 | | | | 2 | 2 | | | | | | | | | |
| Design | | | | | | | | | | | | | | | | |
| Table | 02-10-2020 | 2 | | | | | 2 | | | | | | | | | |
| Creation Coding | 04-10-2020 | 5 | | | | | | 3 | 2 | | | | | | | |
| Coung | 04-10-2020 | 3 | | | | | | 3 | - | | | | | | | |
| Testing | 04-10-2020 | 2 | | | | | | 1 | 1 | | | | | | | |
| User | | | | | | | | | | | | | | | | |
| Story 8 | | | | | | | | | | | | | | | | |
| Form | 06-10-2020 | 4 | | | | | | | | 2 | 2 | | | | | |
| Design Table | | _ | | | | | | | | | | _ | | | | |
| Creation | 07-10-2020 | 2 | | | | | | | | | | 2 | | | | |
| Coding | 09-10-2020 | 7 | | | | | | | | | | 2 | 2 | 2 | 1 | |
| | | | | | | | | | | | | | | | | |
| Testing | 09-10-2020 | 3 | | | | | | | | | | | 1 | 1 | 1 | |
| User | | | | | | | | | | | | | | | | |
| Story 9 | | | | | | | | | | | | | | | | |
| Form | 10-10-2020 | 3 | | | | | | | | | | | | | | 3 |
| Design | | | | | | | | | | | | | | | | |
| Table | 10-10-2020 | 1 | | | | | | | | | | | | | | 1 |
| Creation | | _ | | | | | | | | | | | | | | _ |
| Coding | 11-10-2020 | 3 | | | | | | | | | | | | | | 3 |
| Testing | 11-10-2020 | 2 | | | | | | | | | | | | | | 2 |

Figure 4.9: Sprint 2

4.6.3 Sprint 3

| Backlog | Completion | Original | Day |
|-------------------|------------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| items | date | Estimated | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | hours | 12/10/ 2020 | 13/10/ 2020 | 14/10/ 2020 | 15/10/ 2020 | 16/10/ 2020 | 17/10/ 2020 | 18/10/ 2020 | 19/10/ 2020 | 20/10/ 2020 | 21/10/ 2020 | 22/10/ 2020 | 23/10/ 2020 | 24/10/ 2020 | 25/10/ 2020 | 26/10/ 2020 |
| User Story 10 | | | Hours |
| Form Design | 13-10-2020 | 7 | 3 | 4 | | | | | | | | | | | | | |
| Table Creation | 13-10-2020 | 1 | 1 | | | | | | | | | | | | | | |
| Coding | 14-10-2020 | 7 | 2 | 2 | 3 | | | | | | | | | | | | |
| Testing | 14-10-2020 | 2 | | | 2 | | | | | | | | | | | | |
| User Story 11 | | | | | | | | | | | | | | | | | |
| Form Design | 17-10-2020 | 8 | | | | 3 | 3 | 2 | | | | | | | | | |
| Table Creation | -1710-2020 | 3 | | | | 3 | | | | | | | | | | | |
| Coding | 19-10-2020 | 8 | | | | | 1 | 2 | 3 | 3 | | | | | | | |
| Testing | 19-10-2020 | 2 | | | | | | | 1 | 1 | | | | | | | |
| User Story 12 | | | | | | | | | | | | | | | | | |
| Form Design | 21-10-2020 | 8 | | | | | | | | | 4 | 4 | | | | | |
| Table Creation | 21-10-2020 | 3 | | | | | | | | | 3 | | | | | | |
| Coding | 22-10-2020 | 8 | | | | | | | | | | 4 | 4 | | | | |
| Testing | 22-10-2020 | 2 | | | | | | | | | | 1 | 1 | | | | |
| User Story 13 | | | | | | | | | | | | | | | | | |
| Form Design | 24-10-2020 | 8 | | | | | | | | | | | | 4 | 4 | | |
| Table Creation | 24-10-2020 | 3 | | | | | | | | | | | | 3 | | | |
| Coding | 26-10-2020 | 8 | | | | | | | | | | | | | 2 | 3 | 3 |
| Testing | 26-10-2020 | 2 | | | | | | | | | | | | | | 1 | 1 |

Figure 4.10: Sprint 3

4.6.4 Sprint 4

| Backlog | Completion date | Original Estimated | Day 1 | Day 2 | Day 3 | Day 4 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 | Day 11 | Day 12 | Day 13 | Day 14 |
|-------------------|--------------------|-----------------------|----------|----------------|----------------|----------------|----------------|----------|----------|----------|----------------|----------------|----------------|----------------|----------------|
| items | date | hours | 27/10/ | 28/10/ 2020 | 29/10/ 2020 | 30/10/ 2020 | 31/10/ 2020 | 01/11/ | 02/11/ | 03/11/ | 04/11/ 2020 | 05/11/ 2020 | 06/11/ 2020 | 07/11/ 2020 | 08/11/ 2020 |
| User Story 14 | | | Hours | | | | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
| Form Design | 28-10-2020 | 3 | 3 | | | | | | | | | | | | |
| Table Creation | 28-10-2020 | 0 | 0 | | | | | | | | | | | | |
| Coding | 28-10-2020 | 5 | 5 | | | | | | | | | | | | |
| Testing | 28-10-2020 | 1 | 1 | | | | | | | | | | | | |
| User Story 15 | | | | | | | | | | | | | | | |
| Form Design | 29-10-2020 | 7 | | 3 | 4 | | | | | | | | | | |
| Table Creation | 29-10-2020 | 1 | | | 1 | | | | | | | | | | |
| Coding | 31-10-2020 | 7 | | | 3 | 2 | 2 | | | | | | | | |
| Testing | 31-10-2020 | 2 | | | | 1 | 1 | | | | | | | | |
| User Story 16 | | | | | | | | | | | | | | | |
| Form Design | 01-11-2020 | 4 | | | | | | 4 | | | | | | | |
| Table Creation | 01-11-2020 | 2 | | | | | | 2 | | | | | | | |
| Coding | 02-11-2020 | 6 | | | | | | 2 | 4 | | | | | | |
| Testing | 02-11-2020 | 2 | | | | | | | 2 | | | | | | |
| User Story 17 | | | | | | | | | | | | | | | |
| Form Design | 03-11-2020 | 6 | | | | | | | | 4 | 2 | | | | |
| Table Creation | 03-11-2028 | 2 | | | | | | | | | 2 | | | | |
| Coding | 05-11-2020 | 7 | | | | | | | | | 2 | 5 | | | |
| Testing | 05-11-2020 | 2 | | | | | | | | | 1 | 1 | | | |
| User Story 18 | | | | | | | | | | | | | | | |
| Form Design | 07-11-2020 | 7 | | | | | | | | | | | 4 | 3 | |
| Table Creation | 07-11-2020 | 0 | | | | | | | | | | | | | |
| Coding | 08-11-2020 | 8 | | | | | | | | | | | 2 | 4 | 2 |
| Testing | 08-11-2020 | 2 | | | | | | | | | | | | 1 | 1 |

Figure 4.11: Sprint 4

4.7 Sprint Backlog Actual

4.7.1 Sprint 1

| Backlog items | Completion date | Driginal Estimated | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 | Day 11 | Day 12 | Day 13 | Day 14 |
|-------------------|-----------------|-----------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | hours | 14/9/ 2020 | 15/09/ 2020 | 16/09/ 2020 | 17/09/ 2020 | 18/09/ 2020 | 19/09/ 2020 | 20/09/ 2020 | 21/09/ 2020 | 22/09/ 2020 | 23/09/ 2020 | 24/09/ 2020 | 25/09/ 2020 | 26/09/ 2020 | 27/09/ 2020 |
| User Story 1 | | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
| Form Design | 15-09-2020 | 4 | 2 | 2 | | | | | | | | | | | | |
| Table Creation | 15-09-2020 | 3 | 1 | 2 | | | | | | | | | | | | |
| Coding | 15-09-2020 | 3 | | 3 | | | | | | | | | | | | |
| Testing | 15-09-2020 | 1 | | 1 | | | | | | | | | | | | |
| User Story 2 | | | | | | | | | | | | | | | | |
| Form Design | 17-09-2020 | 6 | | | 3 | 3 | | | | | | | | | | |
| Table Creation | 18-09-2020 | 4 | | | 2 | 1 | 1 | | | | | | | | | |
| Coding | 18-09-2020 | 6 | | | 1 | 2 | 3 | | | | | | | | | |
| Testing | 18-09-2020 | 2 | | | | | 2 | | | | | | | | | |
| User Story 3 | | | | | | | | | | | | | | | | |
| Form Design | 19-09-2020 | 3 | | | | | | 3 | | | | | | | | |
| Table Creation | 20-09-2020 | 3 | | | | | | 2 | 1 | | | | | | | |
| Coding | 20-09-2020 | 4 | | | | | | 1 | 3 | | | | | | | |
| Testing | 20-09-2020 | 2 | | | | | | | 2 | | | | | | | |
| User Story 4 | | | | | | | | | | | | | | | | |
| Form Design | 22-09-2020 | 6 | | | | | | | | 3 | 3 | | | | | |
| Table Creation | 23-09-2020 | 3 | | | | | | | | 2 | 1 | | | | | |
| Coding | 23-09-2020 | 5 | | | | | | | | | 2 | 3 | | | | |
| Testing | 23-09-2020 | 1 | | | | | | | | | | 1 | | | | |
| User Story 5 | | | | | | | | | | | | | | | | |
| Form Design | 25-09-2020 | 6 | | | | | | | | | | | 3 | 3 | | |
| Table Creation | 25-09-2020 | 3 | | | | | | | | | | | 2 | 1 | | |
| Coding | 26-09-2020 | 7 | | | | | | | | | | | | 3 | 4 | |
| Testing | 27-09-2020 | 2 | | | | | | | | | | | | | | 2 |

Figure 4.12: Sprint 1

4.7.2 Sprint 2

| Backlog | Completion | Original | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day | Day |
|-----------------|------------|-----------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|
| items | date | Estimated | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | hours | 28/9/ 2020 | 29/09/ 2020 | 30/09/ 2020 | 01/10/ 2020 | 02/10/ 2020 | 03/10/ 2020 | 04/10/ 2020 | 05/10/ 2020 | 06/10/ 2020 | 07/10/ 2020 | 08/10/ 2020 | 9/10/ 2020 | 10/10/ 2020 | 11/10/ 2020 |
| User | | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
| Story 6 | | | _ | - | | | | | | | | | | | | |
| Form | 29-09-2020 | 5 | 3 | 2 | | | | | | | | | | | | |
| Design Table | 29-09-2020 | 2 | 1 | 1 | | | | | | | | | | | | |
| Creation | 29-09-2020 | 4 | 1 | 1 | | | | | | | | | | | | |
| Coding | 30-09-2020 | 6 | | 3 | 3 | | | | | | | | | | | |
| Coding | 30-09-2020 | 0 | | 3 | 3 | | | | | | | | | | | |
| Testing | 30-09-2020 | 2 | | | 2 | | | | | | | | | | | |
| User | | | | | | | | | | | | | | | | |
| Story 7 | | | | | | | | | | | | | | | | |
| Form | 02-10-2020 | 4 | | | | 2 | 2 | | | | | | | | | |
| Design | | | | | | | | | | | | | | | | |
| Table | 02-10-2020 | 2 | | | | | 2 | | | | | | | | | |
| Creation | | | | | | | | | | | | | | | | |
| Coding | 04-10-2020 | 6 | | | | | | 3 | 3 | | | | | | | |
| Testing | 04-10-2020 | 2 | | | | | | 1 | 1 | | | | | | | |
| User | | | | | | | | | | | | | | | | |
| Story 8 | | | | | | | | | | | | | | | | |
| Form | 06-10-2020 | 6 | | | | | | | | 3 | 3 | | | | | |
| Design | | | | | | | | | | | | | | | | |
| Table | 07-10-2020 | 2 | | | | | | | | | | 2 | | | | |
| Creation | | | | | | | | | | | | _ | | _ | | |
| Coding | 09-10-2020 | 9 | | | | | | | | | | 3 | 3 | 2 | 1 | |
| Testing | 09-10-2020 | 3 | | | | | | | | | | | 1 | 1 | 1 | |
| User | | | | | | | | | | | | | | | | |
| Story 9 | | | | | | | | | | | | | | | | |
| Form | 10-10-2020 | 3 | | | | | | | | | | | | | | 3 |
| Design | | | | | | | | | | | | | | | | |
| Table | 10-10-2020 | 1 | | | | 1 | | | | | | | | | | 1 |
| Creation | 44 40 00 | | | - | | | | | | | | | | | | |
| Coding | 11-10-2020 | 3 | | | | | | | | | | | | | | 3 |
| Testing | 11-10-2020 | 2 | | | | | | | | | | | | | | 2 |

Figure 4.13: Sprint 2

4.7.3 Sprint 3

| Backlo | Completion date | Original Estimat | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 | Day 11 | Day 12 | Day 13 | Day 14 | Day 15 | Day 16 | Day 17 | Day 18 | Day 19 |
|-----------------------|--------------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| items | oute | ed hours | 12/10 /2020 | 13/10 /2020 | 14/10 /2020 | 15/10 /2020 | 16/10 /2020 | 17/10 /2020 | 18/10 /2020 | 19/10 /2020 | 20/10 /2020 | 21/10 /2020 | 22/10 /2020 | 23/10 /2020 | 24/10 /2020 | 25/10 /2020 | 26/10 /2020 | 27/10 /2020 | 28/10 /2020 | 29/10 /2020 | 30/10 /2020 |
| User Story 10 | | | Hours |
| Form Design | 13-10-2020 | 8 | 4 | 4 | | | | | | | | | | | | | | | | | |
| Table Creati on | 13-10-2020 | 1 | | 1 | | | | | | | | | | | | | | | | | |
| Coding | 14-10-2020 | 8 | 2 | 2 | 4 | | | | | | | | | | | | | | | | |
| Testin g | 14-10-2020 | 2 | | | 2 | | | | | | | | | | | | | | | | |
| User Story 11 | | | | | | | | | | | | | | | | | | | | | |
| Form Design | 17-10-2020 | 9 | | | | 3 | 3 | 3 | | | | | | | | | | | | | |
| Table Creati on | 17-10-2020 | 1 | | | | | | 1 | | | | | | | | | | | | | |
| Coding | 19-10-2020 | 13 | | | | | 1 | 3 | 5 | 4 | | | | | | | | | | | |
| Testin | 19-10-2020 | 2 | | | | | | | 1 | 1 | | | | | | | | | | | |
| User Story 12 | | | | | | | | | | | | | | | | | | | | | |
| Form Design | 21-10-2020 | 8 | | | | | | | | | 4 | 4 | | | | | | | | | |
| Table Creati on | 21-10-2020 | 1 | | | | | | | | | | 1 | | | | | | | | | |
| Coding | 24-10-2020 | 12 | | | | | | | | | | 4 | 4 | 3 | 1 | | | | | | |
| Testin g | 24-10-2020 | 2 | | | | | | | | | | | | 1 | 1 | | | | | | |
| User Story 13 | | | | | | | | | | | | | | | | | | | | | |
| Form Design | 27-10-2020 | 10 | | | | | | | | | | | | | | 3 | 3 | 4 | | | |
| Table Creati on | 26-10-2020 | 1 | | | | | | | | | | | | | | | 1 | | | | |
| Coding | 30-10-2020 | 13 | | | | | | | | | | | | | | | | 2 | 4 | 4 | 3 |
| Testin g | 30-10-2020 | 2 | | | | | | | | | | | | | | | | | | | 2 |

Figure 4.14: Sprint 3

4.7.4 Sprint 4

| Backlog items | Completion date | Original Estimated | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 | Day 11 | Day 12 | Day 13 | Day 14 |
|-------------------|-----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | hours | 31/10/ 2020 | 01/11/ 2020 | 02/11/ 2020 | 03/11/ 2020 | 04/11/ 2020 | 05/11/ 2020 | 06/11/ 2020 | 07/11/ 2020 | 08/11/ 2020 | 09/11/ 2020 | 10/11/ 2020 | 11/11/ 2020 | 12/11/ 2020 | 13/11/ 2020 |
| User Story 14 | | | Hours |
| Form Design | 31-10-2020 | 2 | 2 | | | | | | | | | | | | | |
| Table Creation | 31-10-2020 | 0 | 0 | | | | | | | | | | | | | |
| Coding | 31-10-2020 | 4 | 4 | | | | | | | | | | | | | |
| Testing | 31-10-2020 | 1 | 1 | | | | | | | | | | | | | |
| User Story 15 | | | | | | | | | | | | | | | | |
| Form Design | 03-11-2020 | 8 | | 3 | 3 | 2 | | | | | | | | | | |
| Table Creation | 01-11-2020 | 1 | | 1 | | | | | | | | | | | | |
| Coding | 04-11-2020 | 10 | | 2 | 3 | 4 | 1 | | | | | | | | | |
| Testing | 04-11-2020 | 3 | | | 1 | 1 | 1 | | | | | | | | | |
| User Story 16 | | | | | | | | | | | | | | | | |
| Form Design | 08-11-2020 | 4 | | | | | | 2 | | | 1 | 1 | | | | |
| Table Creation | 11-11-2020 | 1 | | | | | | | 1 | | | | | | | |
| Coding | 11-11-2020 | 8 | | | | | | 2 | | 1 | 2 | | 2 | 1 | | |
| Testing | 11-11-2020 | 5 | | | | | | | | | | 3 | 1 | 1 | | |
| User Story 17 | | | | | | | | | | | | | | | | |
| Form Design | 12-11-2020 | 4 | | | | | | | | | | | | | 3 | 1 |
| Table Creation | 11-11-2020 | 1 | | | | | | | | | | | | | 1 | |
| Coding | 13-11-2020 | 6 | | | | | | | | | | | | | 3 | 3 |
| Testing | 13-11-2020 | 2 | | | | | | | | | | | | | 1 | 1 |

Figure 4.15: Sprint 4

| Backlog items | Completion date | Original Estimated | Day 15 | Day 16 |
|------------------|-----------------|-----------------------|----------------|----------------|
| | | hours | 14/11/ 2020 | 15/11/ 2020 |
| User | | | Hours | Hours |
| Story 18 | | | | |
| Form | 14-11-2020 | 3 | 3 | |
| Design | | | | |
| Table | 14-11-2020 | 1 | 1 | |
| Creation | | | | |
| Coding | 15-11-2020 | 5 | 3 | 2 |
| Testing | 15-11-2020 | 3 | 1 | 2 |

Figure 4.16: Sprint 4

4.8 Database Design

4.8.1 Login Table

Both uses and company can access their account only after login in to the system with proper username and password. This Table stores username and password of both users and company who registered in the website.

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|-------------|-------------|-----------------|
| 1 | loginid | INT(3) | PRIMARY KEY | User's ID |
| 2 | email | VARCHAR(30) | UNIQUE | User's Email |
| 3 | password | VARCHAR(20) | NOTNULL | User's Password |
| 4 | role | VARCHAR(10) | NOTNULL | Usertype |

Table 4.1: Login Table

4.8.2 Company Table

Any companies can gets the functionality of the system only after their registration. This Table stores Company details uploaded at the time of registration.

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|-------------|--------------|-------------|--------------------|
| 1 | companyid | INT(11) | PRIMARY KEY | Company ID |
| 2 | name | VARCHAR(50) | NOTNULL | Employer's Name |
| 3 | companyname | VARCHAR(50) | NOTNULL | Company Name |
| 4 | country | VARCHAR(50) | NOTNULL | Company Country |
| 5 | state | VARCHAR(10) | NOTNULL | Company State |
| 6 | city | VARCHAR(50) | NOTNULL | Company City |
| 7 | contactno | VARCHAR(50) | NOTNULL | Company Phone Num- |
| | | | | ber |
| 8 | website | VARCHAR(50) | NOTNULL | Company Website |
| 9 | email | VARCHAR(50) | UNIQUE | Company's Email |
| 10 | aboutme | VARCHAR(100) | NOTNULL | About Company |
| 11 | logo | VARCHAR(100) | NOTNULL | Company Logo Name |
| 12 | active | INT(2) | NOTNULL | Account Status |

Table 4.2: Company Table

4.8.3 User Table

Any users can gets the functionality of the system only after their registration. This Table stores details of Users uploaded at the time of registration.

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|----------------|--------------|-------------|------------------------|
| 1 | userid | INT(11) | PRIMARY KEY | User's ID |
| 2 | firstname | VARCHAR(50) | NOTNULL | User's Firstname |
| 3 | lastname | VARCHAR(50) | NOTNULL | User's Lastname |
| 4 | email | VARCHAR(50) | UNIQUE | User's Email |
| 5 | address | VARCHAR(50) | NOTNULL | User's Address |
| 6 | country | VARCHAR(50) | NOTNULL | User's Address |
| 7 | city | VARCHAR(50) | NOTNULL | User's Country |
| 8 | state | VARCHAR(10) | NOTNULL | User's State |
| 9 | contactno | VARCHAR(50) | NOTNULL | User's Phone Number |
| 10 | qualifications | VARCHAR(50) | NOTNULL | User's Qualifications |
| 11 | stream | VARCHAR(20) | NOTNULL | User's Course |
| 12 | passingyear | VARCHAR(10) | NOTNULL | User's Year Of Passing |
| 13 | dob | DATE | NOTNULL | User's Date Of Birth |
| 14 | age | INT(3) | NOTNULL | User's Age |
| 15 | designation | VARCHAR(50) | NOTNULL | User's Preferred |
| | | | | D6signation |
| 16 | aboutme | VARCHAR(100) | NOTNULL | About User |
| 17 | skills | VARCHAR(50) | NOTNULL | User's Skills |
| 18 | resume | VARCHAR(100) | NOTNULL | User's Resume Name |

Table 4.3: User Table

4.8.4 Countries Table

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|--------------|-------------|--------------|
| 1 | id | INT(11) | PRIMARY KEY | Country ID |
| 2 | name | VARCHAR(150) | UNIQUE | Country Name |

Table 4.4: Country Table

4.8.5 States Table

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|-------------|-------------|-------------|
| 1 | id | INT(11) | PRIMARY KEY | State ID |
| 2 | name | VARCHAR(30) | UNIQUE | State Name |
| 3 | countryid | INT(11) | FOREIGN KEY | Country ID |

Table 4.5: States Table

4.8.6 Cities Table

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|-------------|-------------|-------------|
| 1 | id | INT(11) | PRIMARY KEY | City ID |
| 2 | name | VARCHAR(30) | NOTNULL | City Name |
| 3 | stateid | INT(11) | FOREIGN KEY | State ID |

Table 4.6: Cities Table

4.8.7 Job Post Table

Each registered company can post the job vaccancies in their company. This Table stores Job Posts Details provided by the Companies

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|----------------|-------------|-------------|--------------------|
| 1 | postid | INT(3) | PRIMARY KEY | Post ID |
| 2 | companyid | INT(3) | FOREIGN KEY | Company ID |
| 3 | jobtitle | VARCHAR(20) | NOTNULL | Job Title |
| 4 | description | VARCHAR(50) | NOTNULL | About Job |
| 5 | minimumsalary | VARCHAR(20) | NOTNULL | Minimum Salary |
| 6 | maximumsalary | VARCHAR(20) | NOTNULL | Maximum Salary |
| 7 | experience | INT(3) | NOTNULL | Experience State |
| 8 | qualifications | VARCHAR(50) | NOTNULL | Job Qualifications |
| 9 | duedate | DATE | NOTNULL | Due Date |

Table 4.7: Job Post Table

4.8.8 Job Apply Table

Users can view the job vaccancies posted by different companies and they can apply for jobs according to their interest. This Table stores Applied User's details and status of Application

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|--------|-------------|-----------------------|
| 1 | applyid | INT(3) | PRIMARY KEY | Job Application Apply |
| | | | | ID |
| 2 | jobpostid | INT(3) | FOREIGN KEY | Job Post ID |
| 3 | companyid | INT(3) | FOREIGN KEY | Company ID |
| 4 | userid | INT(3) | FOREIGN KEY | User's ID |
| 5 | status | INT(3) | NOTNULL | Application Status |

Table 4.8: Job Apply Table

4.8.9 Exams Table

Admin conduct exams for candidates to know their knowledge. Admin create exams and this Table stores that Exam details.

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|--------------|-------------|---------------|
| 1 | examid | INT(3) | PRIMARY KEY | Exam ID |
| 2 | examname | VARCHAR(30) | NOTNULL | Exam Name |
| 3 | duration | INT(3) | NOTNULL | Exam Duration |
| 4 | passmark | INT(5) | NOTNULL | Exam Passmark |
| 5 | terms | VARCHAR(150) | NOTNULL | Exam Terms |

Table 4.9: Exams Table

4.8.10 Exam Questions Table

Admin conduct exams for candidates to know their knowledge, so admin need to be add and upadate questions. This table stores the questions for each exams.

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|-------------|-------------|-------------------|
| 1 | questionid | INT(3) | PRIMARY KEY | Question ID |
| 2 | examid | VARCHAR(15) | FOREIGN KEY | Exam ID |
| 3 | type | VARCHAR(50) | NOTNULL | Question Category |
| 4 | question | LONGTEXT | NOTNULL | Question |
| 5 | option1 | VARCHAR(50) | NOTNULL | Question Option 1 |
| 6 | option2 | VARCHAR(50) | NOTNULL | Question Option 2 |
| 7 | option3 | VARCHAR(50) | NOTNULL | Question Option 3 |
| 8 | option4 | VARCHAR(50) | NOTNULL | Question Option 4 |
| 9 | answer | VARCHAR(50) | NOTNULL | Question Answer |

Table 4.10: Exam Questions Table

4.8.11 Assessment Record Table

Each candidates should attend the exam assigned by the admin and the exam score can be view by the admin,company and user. This table store exam scores of each candidates.

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|-------------|-------------|---------------|
| 1 | recordid | INT(3) | PRIMARY KEY | Record ID |
| 2 | userid | INT(3) | FOREIGN KEY | User's ID |
| 3 | examid | VARCHAR(20) | FOREIGN KEY | Exam ID |
| 4 | score | INT(5) | NOTNULL | User's Score |
| 5 | status | INT(2) | NOTNULL | Result Status |
| 6 | date | DATE | NOTNULL | Exam Date |

Table 4.11: Assessment Record Table

4.8.12 Task Table

Admin assign different tasks for candidates to know their skills. This table store task details that assigned by admin for candidates.

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|--------------|-------------|--------------|
| 1 | taskid | INT(3) | PRIMARY KEY | Task ID |
| 2 | taskname | VARCHAR(50) | NOTNULL | Task Name |
| 3 | question | VARCHAR(500) | NOTNULL | Question |
| 4 | passmark | INT(3)) | NOTNULL | Pass Mark |
| 5 | terms | LONGTEXT | NOTNULL | Task Details |
| 6 | status | INT(2) | NOTNULL | Task Status |

Table 4.12: Task Table

4.8.13 Task Submit Table

Each candidate responsible for complete the task assigned for them. This table stores candidates's submitted task details, status and scores.

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------------|--------------|-------------|--------------------|
| 1 | taskid | INT(3) | PRIMARY KEY | Task ID |
| 2 | userid | INT(3) | FOREIGN KEY | Candidate ID |
| 3 | tasksubmitdate | DATE | NOTNULL | Task Submit Date |
| 4 | tasksubmitstatus | INT(5) | NOTNULL | Task Submit Status |
| 5 | taskreviewstatus | INT(5) | NOTNULL | Task Review Status |
| 6 | tasklink | VARCHAR(200) | NOTNULL | Task Github Link |
| 7 | taskscore | INT(10) | NOTNULL | Task Status |

Table 4.13: Tasks Submit Table

4.8.14 MailBox

There is an option to make communication between user and company. This Table stores Mail details that is to be send/receive from user/company.

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|--------------|-------------|-----------------------|
| 1 | idmailbox | INT(3) | PRIMARY KEY | Mail ID |
| 2 | idfromuser | INT(3) | NOTNULL | ID of user send mes- |
| | | | | sage |
| 3 | fromuser | VARCHAR(10) | NOTNULL | Type of user who send |
| 4 | idtouser | INT(3) | NOTNULL | The id of user to be |
| | | | | send |
| 5 | subject | VARCHAR(100) | NOTNULL | Message subject |
| 6 | message | VARCHAR(300) | NOTNULL | Message |
| 7 | date | DATE | NOTNULL | Date of message cre- |
| | | | | ation |

Table 4.14: MailBox Table

4.8.15 Reply MailBox

There is an option to make communication between user and company. This Table stores Mail details that is to be send/receive from user/company.

| No. | FIELD NAME | TYPE | CONSTRAINTS | DESCRIPTION |
|-----|------------|--------------|-------------|----------------------|
| 1 | idreply | INT(3) | PRIMARY KEY | ID of reply message |
| 2 | idmailbox | INT(3) | FOREIGN KEY | Mail ID |
| 3 | iduser | VARCHAR(10) | FOREIGN KEY | ID of user |
| 4 | usertype | INT(3) | FOREIGN KEY | Type of user |
| 6 | message | VARCHAR(300) | NOTNULL | Message |
| 7 | date | DATE | NOTNULL | Date of message cre- |
| | | | | ation |

Table 4.15: ReplyMailBox Table

4.9 User Interface Design

4.9.1 Homepage

Homepage of Worklord Website

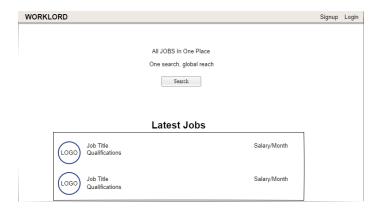


Figure 4.17: Homepage

4.9.2 Login

Login Page for admin, company and users

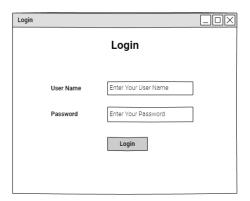


Figure 4.18: Login

4.9.3 Job Search

Helps to Search Available Jobs in the website



Figure 4.19: Job Search

4.9.4 **Jobs**

Job Details

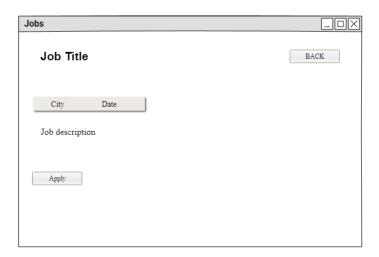


Figure 4.20: Jobs

4.9.5 Mailbox

View messages from User/Company and Compose messages to User/Company

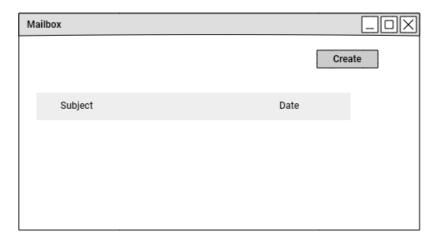


Figure 4.21: MailBox

4.9.6 View Mailbox

View messages from User/Company and Reply to those messages

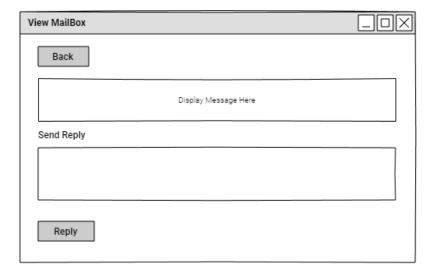


Figure 4.22: View MailBox

4.9.7 Compose Message

Compose Messages to User or Company (Shows users Applied for Jobs)

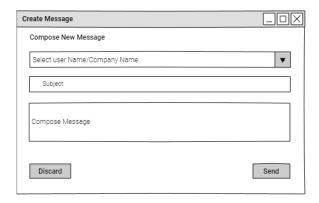


Figure 4.23: Compose Message

4.9.8 User Registration

Registration form for User

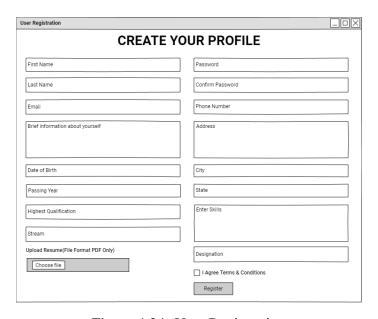


Figure 4.24: User Registration

4.9.9 Dashboard

Dashboard for Users, Shows available functions for user

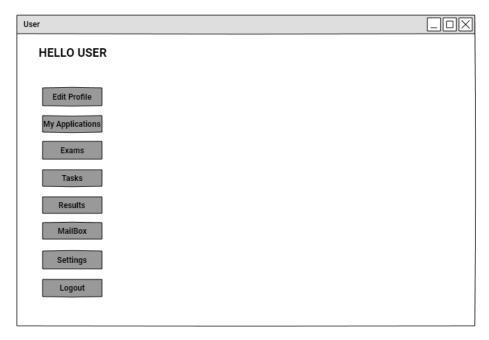


Figure 4.25: Dashboard

4.9.10 My Applications

Applied Job's Details and Status

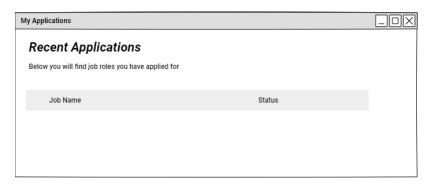


Figure 4.26: My Applications

4.9.11 Update Profile

Update User's Details and Resume

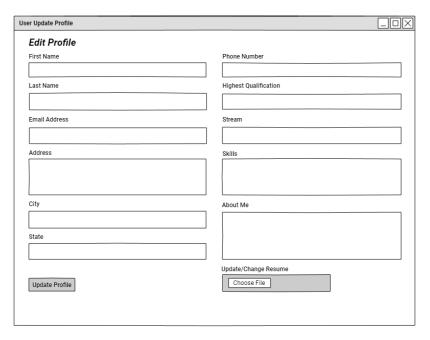


Figure 4.27: Update Profile

4.9.12 Exams

Attend Exams and View scores

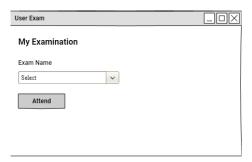


Figure 4.28: Exams

4.9.13 Tasks

Attend Tasks



Figure 4.29: Tasks

4.9.14 Results

View Scores for Task and Exams

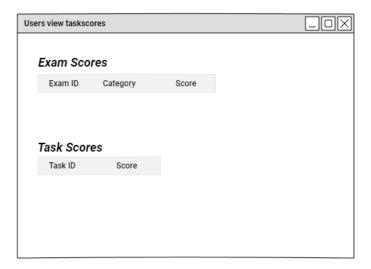


Figure 4.30: Results

4.9.15 Settings

Change Password or Delete Account

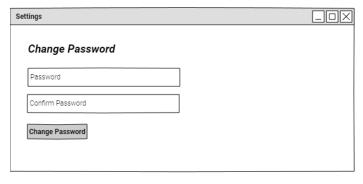


Figure 4.31: Settings

4.9.16 Company Registration

Registration form for company

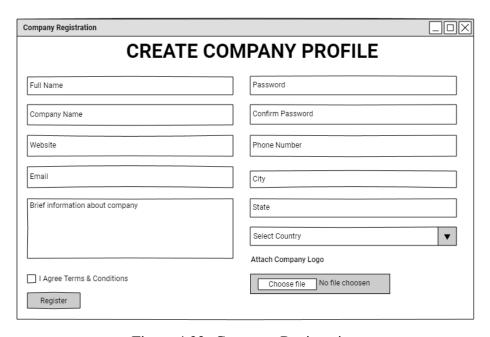


Figure 4.32: Company Registration

4.9.17 Dashboard

Dashboard for company

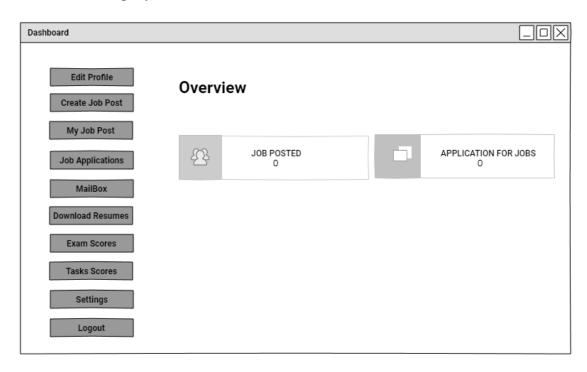


Figure 4.33: Dashboard

4.9.18 Edit Profile

Edit Company details

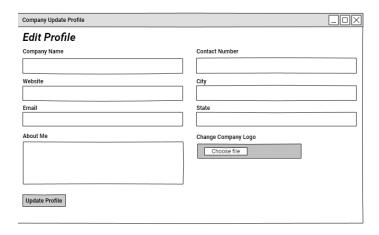


Figure 4.34: Edit Profile

4.9.19 Create Job Post

Create New Job Posts with Details

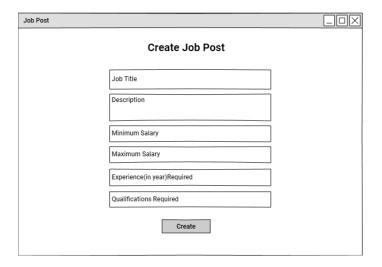


Figure 4.35: Create Job Post

4.9.20 Job Posts

View posted Jobs by Company



Figure 4.36: Job Posts

4.9.21 Job Applications

View Job Post Applications from Users and Review

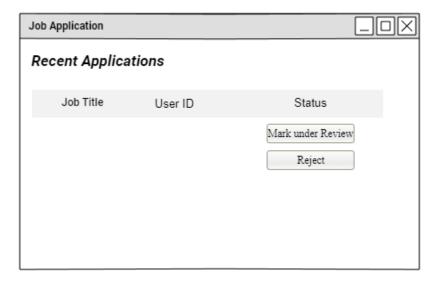


Figure 4.37: Job Applications

4.9.22 Download Resumes

Download Resumes of Applied Users for Company's Job Posts

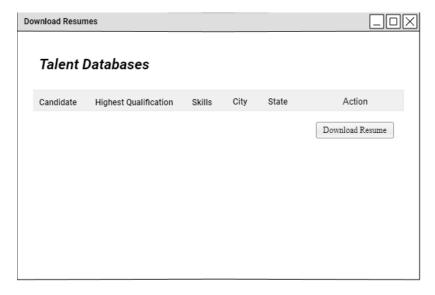


Figure 4.38: Download Resume

4.9.23 Exam Scores

Exam Scores of Applied Users for Company's Job Posts

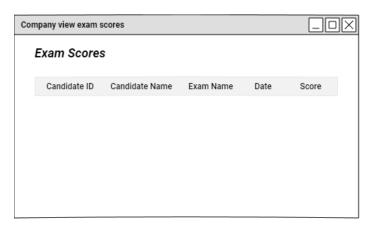


Figure 4.39: Exam Scores

4.9.24 Task Scores

Task Scores of Applied Users for Company's Job Posts

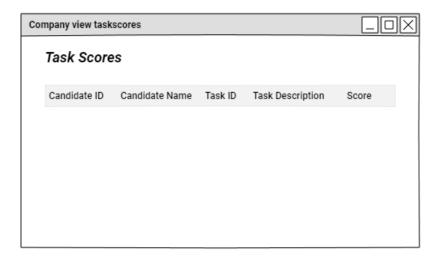


Figure 4.40: Task Scores

4.9.25 Settings

Change FullName or Password of Company and also Delete Account

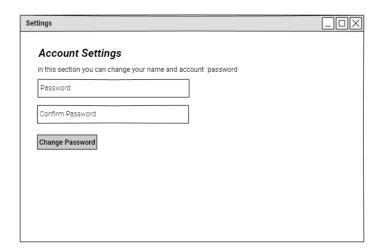


Figure 4.41: Settings

4.9.26 Admin Homepage

Overview of Job Portal with Registered Companies, User, Job Post, etc..

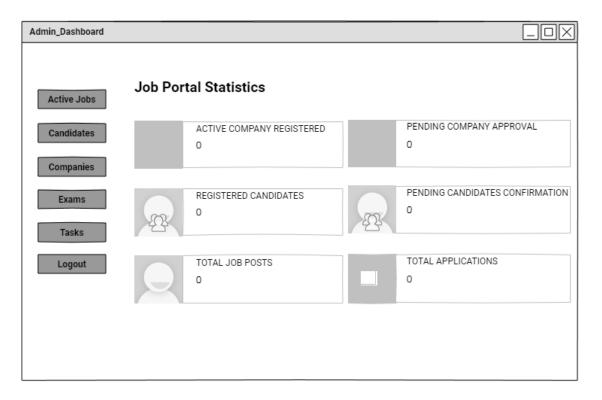


Figure 4.42: Admin Homepage

4.9.27 Active Jobs

Show active Jobs from Companies and manage them



Figure 4.43: Active Jobs

4.9.28 Candidates

Show candidates details

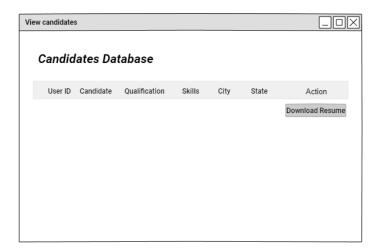


Figure 4.44: Candidates

4.9.29 Companies

Show company details and manage them

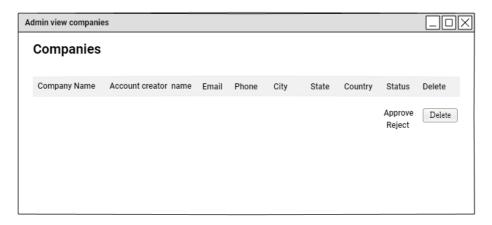


Figure 4.45: Companies

4.9.30 Exams

Show details of exams

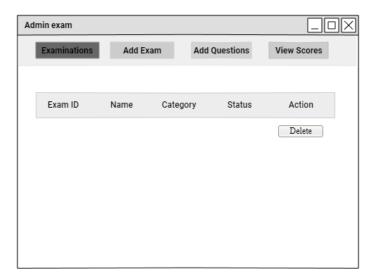


Figure 4.46: Exams

4.9.31 Add Exams

Add exams for users



Figure 4.47: Add Exams

4.9.32 Add Questions

Add Questions for Exams

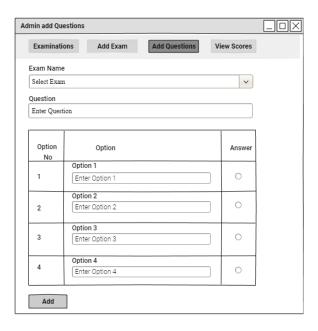


Figure 4.48: Add Questions

4.9.33 View Scores

View Scores of Exams

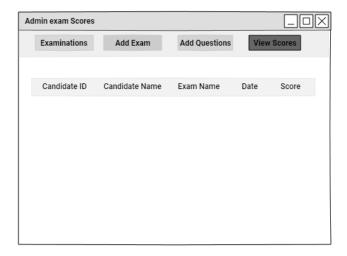


Figure 4.49: View Scores

4.9.34 Tasks

Show Tasks for users

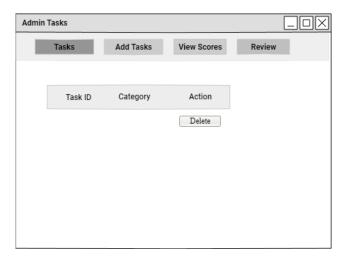


Figure 4.50: Tasks

4.9.35 Add Tasks

Add New Tasks

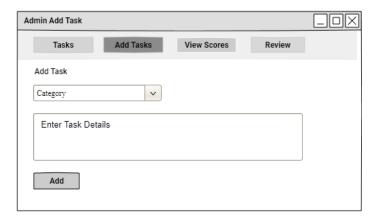


Figure 4.51: Add Tasks

4.9.36 View Scores

View Task Scores for Users

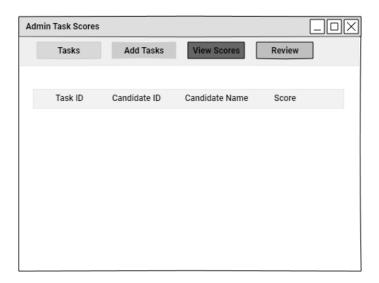


Figure 4.52: View Scores

4.9.37 Task Review

Review tasks done by users

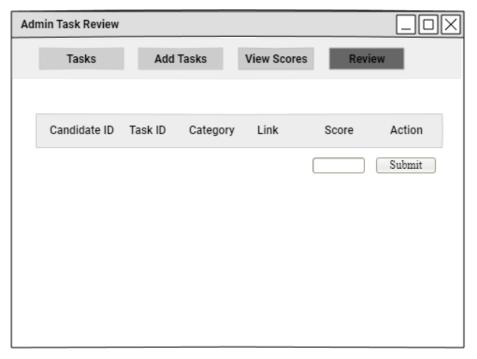


Figure 4.53: Task Review