





# Online Job Portal System

## Software Project 1

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### Department of Computer Science

### Faculty of Science & Information Technology

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August, 2018

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## Declaration

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We declare that this project is our original work and has not been submitted in any form for another degree or diploma at any university or other institute of tertiary education. Information derived from the published and unpublished work of others has been acknowledged in the text and a list of references is given.

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## Approval

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This software project “Online Job Portal System” has been submitted to the following respected members of the board of examiners of the Department of Computer Science in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Software Engineering on 17 August 2018 has been accepted as satisfactory.

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## Acknowledgement

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We want to thank our honorable supervisor Md. Shamsur Rahim sir. His outstanding supervision and support makes this project possible. We also thanks to our Head of Computer Science department Dr. Dip Nandi, Director of the Computer Science department Mashiour Rahman, Dean of FSIT Professor Dr. Tafazzal Hossain and our honorable Vice Chancellor, Dr. Carmen Z. Lamagna for their genuine support.

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## Chapter 1: Statement

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### 1.1 Documentation History & Distribution

**Table 1.A: Revision History**

Revision	Revision Date	Description of Change	Author(s)
1.0	24-06-2018	N/A	i) Shahadat, Shourav ii) Rafi, Istiaq
2.0	11-08-2018	N/A	i) Shourav li) Rafi

**Table 1.B: Distribution**

Recipient Name	Recipient Organization	Distribution Method
Md. Shamsur Rahim	AIUB	Hard Copy

## 1.2 Purposes/Objectives

- Find out the problems about Online Job Portal System .
- Figure out the requirements
- Define a solution
- Develop the software (ONLINE JOB PORTAL).

## 1.3 Anticipated benefits

- Job seeker doesn't need to search because they will get recommended job circulars as per their skill
- Job provider will get recommended best match candidates according to a circular
- Job seeker can easily find jobs using keyword search
- Job seeker can subscribe a company to get notified about jobs in the future from that company
- Job provider doesn't have to check job seeker's resume manually in paper instead job provider can view job seekers resume and all other qualification information in the system which is very time efficient and saves a lot of time
- Job seeker doesn't have to send paper resume, he can send virtual resume and all other qualification using the system which saves both money and time.

## 1.4 Software/Technology Proposed

- Programming language: Python and Js
- Design: HTML 5, CSS 3, BOOTSTRAP
- Framework: Laravel 5.4 and React Js
- Server: Apache (XAMPP) [9]
- Database: MS SQL
- Architecture: MVC
- Project Management: Trello[11]
- Version Controlling: Github[10], Git
- SDLC Model: Scrum

## 1.5 Customers/End Users Impacted

- Job Seeker
- Employer
- Admin

## 1.6 Requirements

- Computer / Cell phones
- MS SQL Database
- Operating System: Windows 8 Windows 10, Android OS > 4.0 version
- Internet Browsers

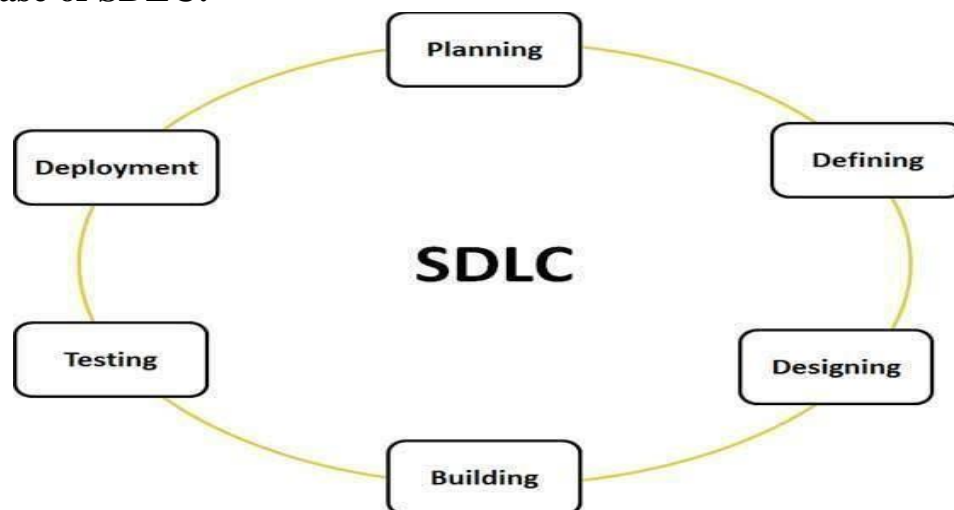
## 1.7 Deliverable include in scope

- Full software
- Technical documentation
- User manual

## 1.8 SDLC methods

SDLC stands for Software Development Life Cycle. SDLC is a process to develop high qualified software. [1] SDLC have six stages. The following figure is a graphical representation of the stages of a typical SDLC.

### 1.8.1 Phase of SDLC:



**Fig 1.1: Phase of SDLC**

Descriptions are given below:

1. **Planning:** This stage contains requirement analysis. This is the most important part of SDLC. In this stage senior members talk to the customer and collect the requirement of the software.

Project related study, risk and revenue calculation are also done in this stage.

2. **Defining:** This is the documentation stage. After requirement analysis, requirements are clearly documented and approved from the customer. It's called SRS (Software Requirement Specification). It contains all the product requirements.
3. **Designing:** Based on the requirements, more than one design is proposed. Designed are also documented. It's called DDS (Design Document Specification). After analysis the DDS, the best design approach is selected for the product.
4. **Building:** In this stage programmer start programming with the chosen tools (programming language, compiler etc.). Usually tools are defined by the organization. In this stage actual development is start. The programmer implement the DDS. And the product is built.
5. **Testing:** In this stage tester try to find bugs and check if the software meets the requirements or not.
6. **Deployment:** After the product is tested then it's ready to release. Release date depends on organization and market conditions. This stage is also contain maintenance. Based on feedback and customer demand, software maintenance happen.

### 1.8.2 SDLC Models:

There are different kinds of SDLC process model. Some are traditional and some agile and other. [2]

#### Traditional Models:

1. **Waterfall:** When all requirements are very clear then this model is chosen. The main thing is that when the working is started it in phase by phase there is no way to move back to the previous phases. Most of time this model is chosen for small or medium projects. When the requirements are clear and fixed there is no option to change it while tasks are processing on this model.

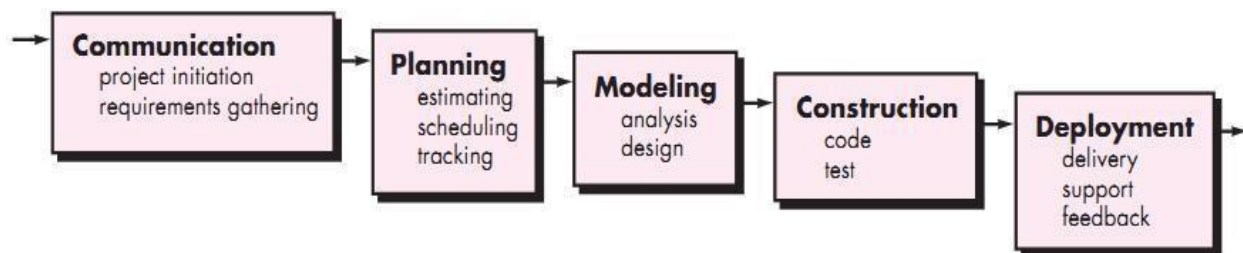
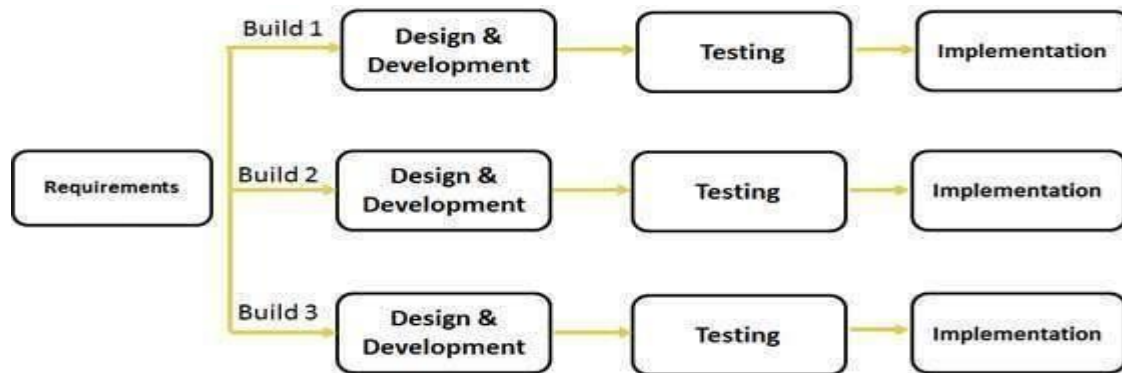


Fig 1.2: Waterfall model

2. **Iterative Model:** Iterative process is start from implementation. It starts implement a subset of the software. This method is based on repeated cycle (iterative). The main plot of this method is to

develop a system through repeated cycles (iterative) and in smaller portions at a time (incremental).

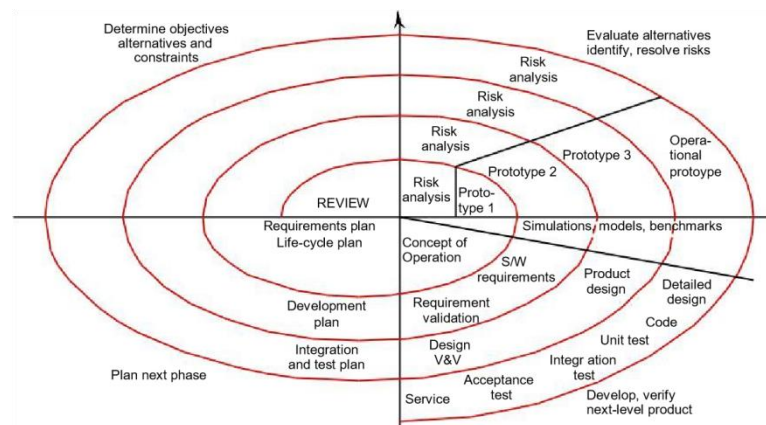
Phases of iterative model are:



**Fig 1.3: Iterative Model**

Iterative process is an incremental process. More than one iteration may process at a time. Every iteration includes requirement analysis, design, development, testing and implementation. In this model risk can easily analyze. But this model is so complex. Skilled people need for management.

- 3. Spiral Model:** This Spiral model is a combination of iterative development process model and sequential linear development model i.e. the waterfall model with a very high emphasis on risk analysis. It allows incremental releases of the product or incremental refinement through each iteration around the spiral. This model has four phases. A software project tasks repeatedly passes through these phases in iterations called Spirals. This one is mainly used for medium to high-risk projects, requirements are complex, and significant changes are expected in the product during the development cycle.

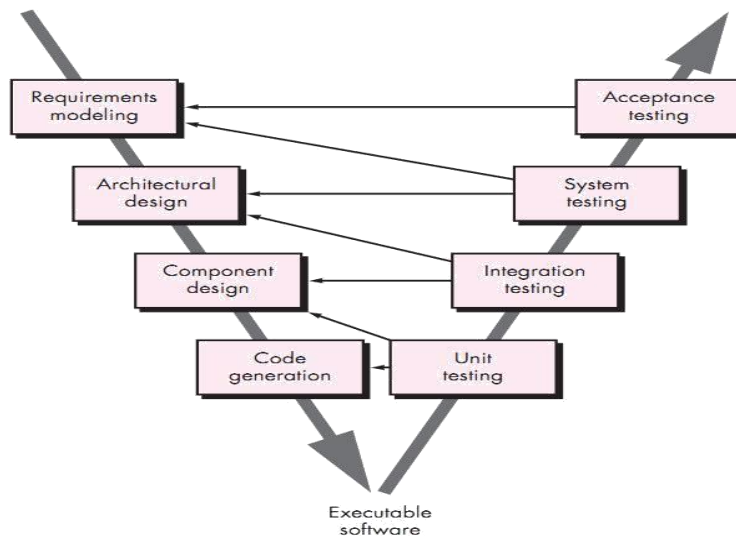


**Fig 1.4: Spiral Model**

Spiral model is used for big projects and when requirements are not stable.

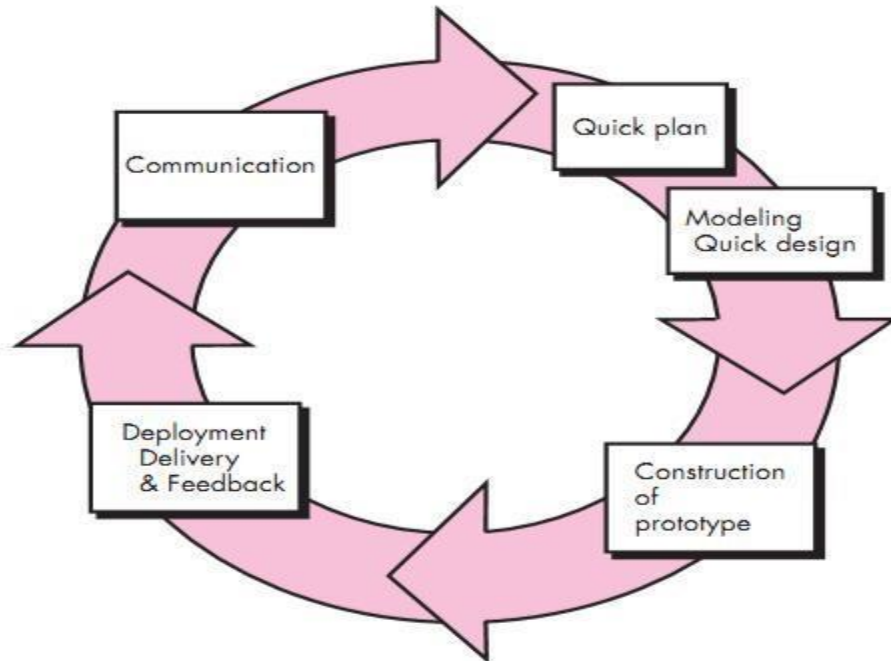


**4. V – Model:** This is also known as Verification and Validation Model. The V-Model is an extension of the waterfall model and is based on the association of a testing phase for each corresponding development stage. This means that for every single phase in the development cycle, there is a directly associated testing phase. Like waterfall model here requirements are well defined and fixed and there will be no undefined or ambiguous requirements. This is mainly used for short projects.



**Fig 1.5: V-Model**

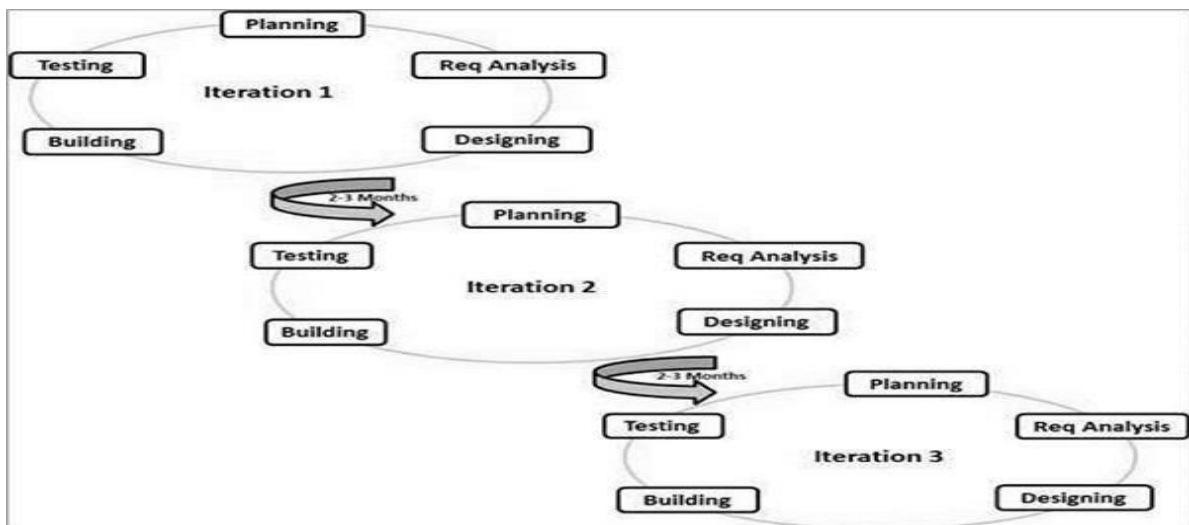
**5. Prototyping Model:** This model is mainly used for understanding the user requirements clearly. This one helps developer to understand what functionality and system look customer is expecting to build. In simple words, the prototyping refers to building software application prototypes which displays the functionality of the product under development, but does not hold the exact logic of the original software. Iteration occurs as the prototype is tuned to satisfy the needs of the customer.



**Fig 1.6: Prototyping Model**

Prototyping model is used when the project is short.

**6. Agile Methods:** In Agile model, the tasks are divided to time boxes (small time frames) to deliver specific features for a release. These are done in iteration process. Each iteration process has time limit from 1 week to 4 weeks. Basically now-a-days this model is used in most of the projects. Mainly for big projects this one is used. This model gives flexibility to developers and here the resource requirements are minimum. But it will be hard to manage or processing the tasks if the project has complex dependencies.



**Fig 1.7: Agile**

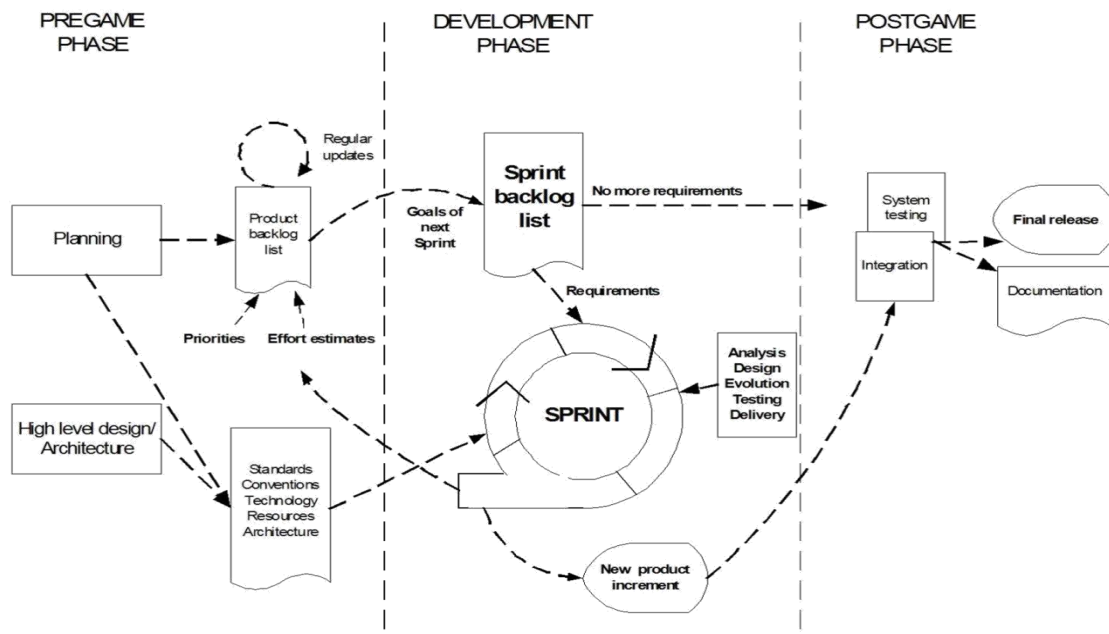
## 1. Scrum: Scrum have three phase. These are:

### 1.1. Pre-game

### 1.2. Development

### 1.3. Post-game

In pre-game phase planning and design are happen. It includes requirements analysis, risk calculation and other documentation part. And in development phase, project is built. Post-game phase come when there is no more requirement. And then the project is being released.



**Fig 1.8: Scrum**

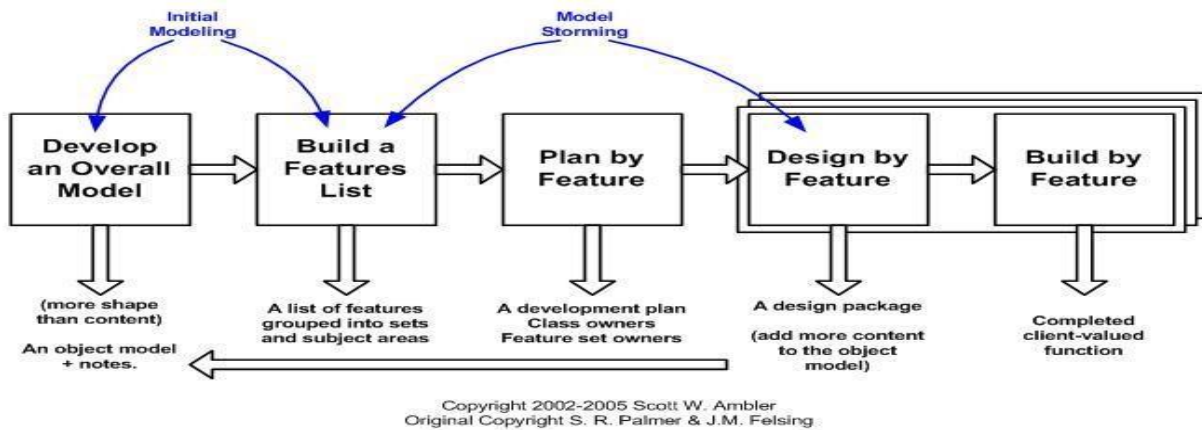
Product backlog and sprint are special features of scrum. Product backlog is a list of priority based requirements. And sprint is iteration cycle.

**2. Extreme Programming (XP):** Agile Modeling (AM) is a practices-based software process. In XP method, software may release after every iteration.



**Fig 1.9: Extreme Programming (XP)**

**3.Feature Driven Development (FDD):** FDD is iterative and incremental software development process. FDD have short iteration process. FDD consist five basic activities.



**Fig 1.10: FDD**

First two activities are the overall model of the project. The final three activities are iterated for each feature.

## 1.9 Our Chosen SDLC model: SCRUM

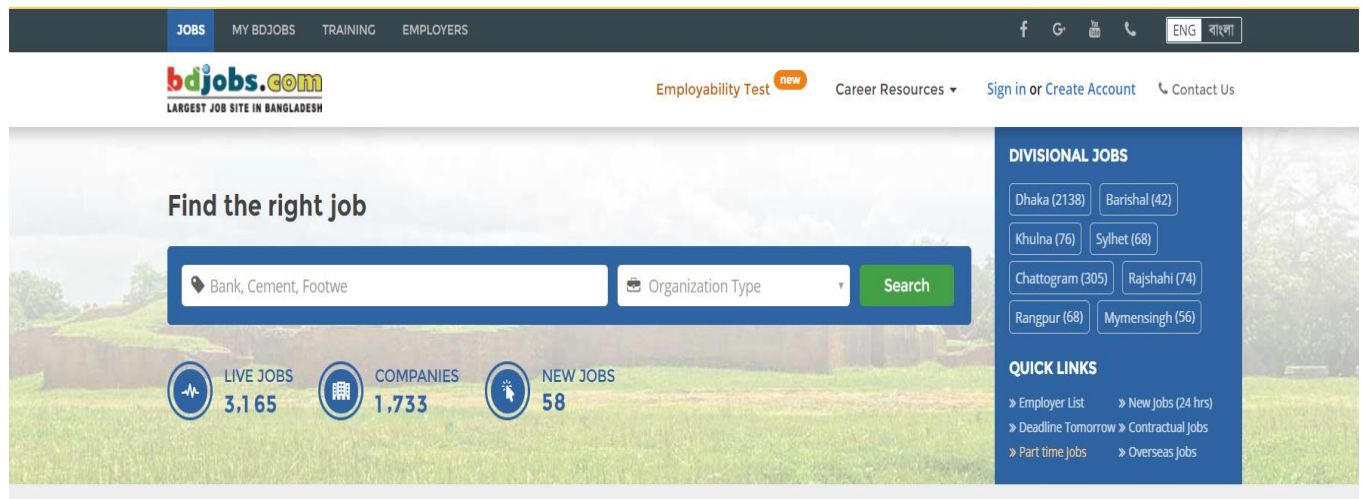
Why we chosen SCRUM as our SDLC?

- Scrum ensures effective use of time and money
- Large projects are divided into easily manageable sprint
- Works well for fast-moving development projects
- The team gets clear visibility through scrum meetings
- Scales very well to multiple teams and geographic locations.
- Short sprints enable changes based on feedback a lot more easily
- The individual effort of each team member is visible during daily scrum meetings
- Issues are identified well in advance through the daily meetings and hence can be resolved in speedily
- It is easier to deliver a quality product in a scheduled time.
- It is good for small, fast moving projects as it works well only with small team.

## 1.10 Related Work Study

We study other web based platform and find out their lacking's and strong side. We try to solve this problems by our platform. Some of the platforms study are given below:

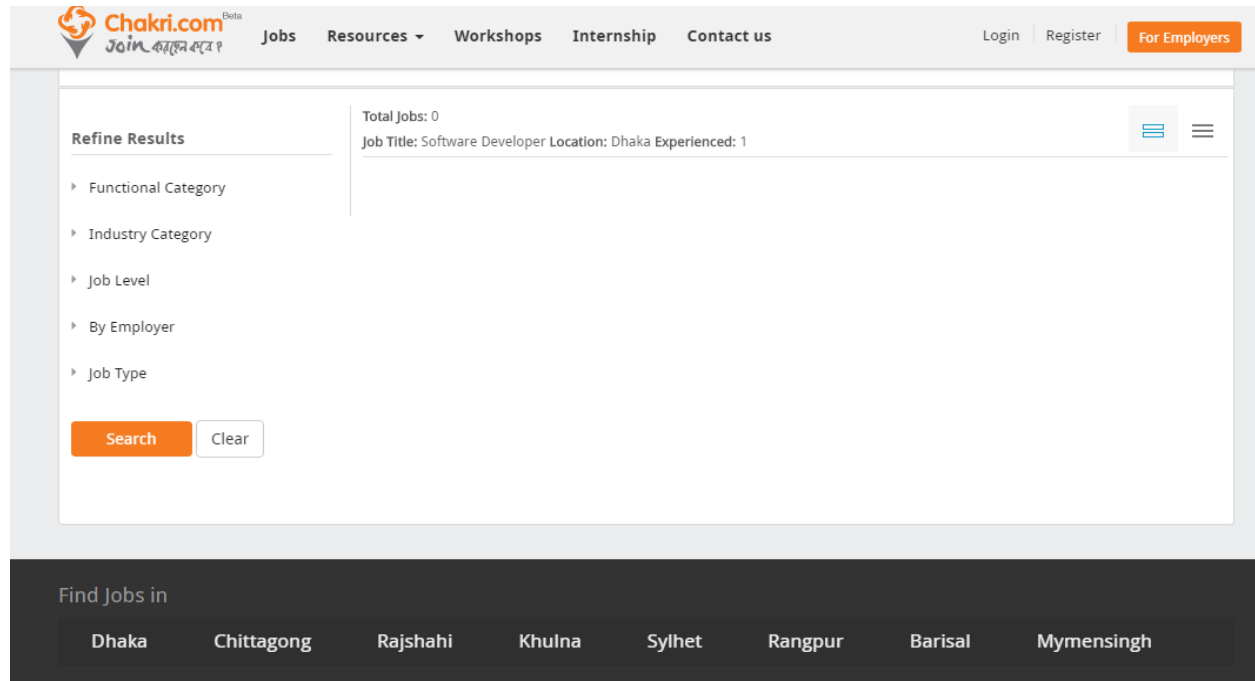
### 1.10.1: BD JOBS



**Fig 1.11: BD Jobs**

Currently bdjobs.com is the top job portal in Bangladesh. But to find job circular user needs to search. No searching suggestion when typing a common keyword. System doesn't recommend job circular/job seeker. There is also no payment from job seeker.

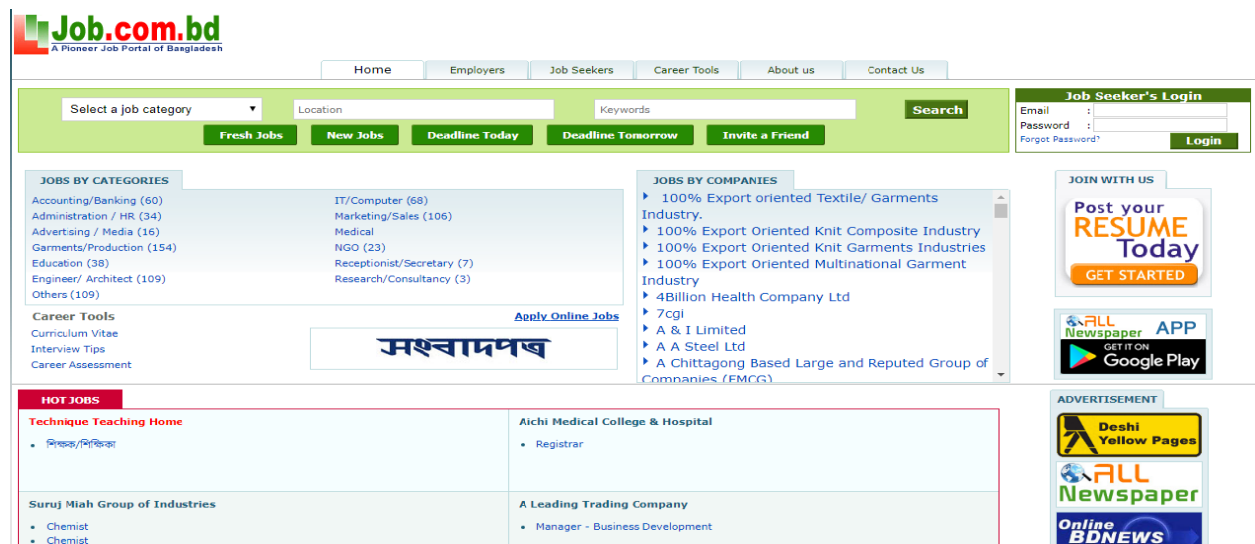
### 1.10.2 Chakri.com



**Fig 1.12 : Chakri.com**

There is no search suggestion for a keyword search. But the main problem in Chakri.com is sometime there is zero search results for a very common keyword. People will use keyword to find jobs.

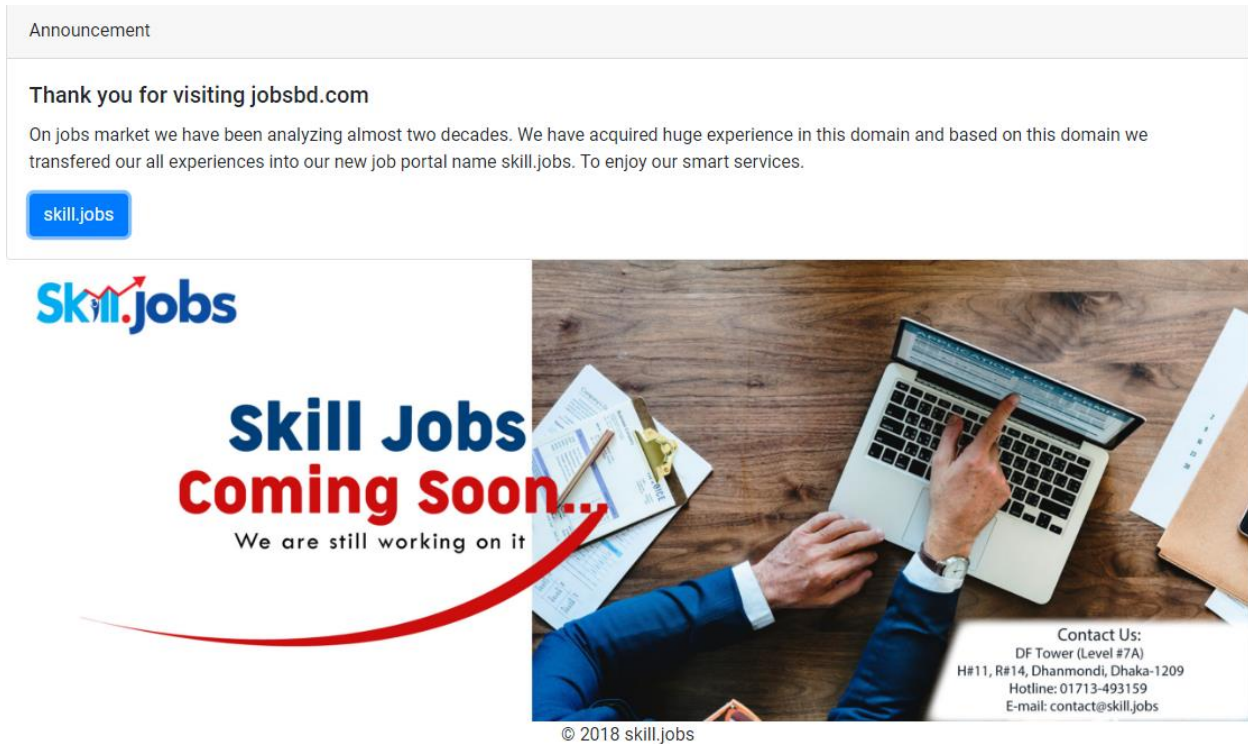
### 1.10.3 Job.com.bd



**Fig 1.13: Job.com.bd**

Job.com.bd has a very poor User Interface(UI). Too much information in one place and informations are not properly placed. User may face ambiguity searching jobs. No searching suggestion when typing a common keyword. System doesn't recommend job circular/job seeker according to user's skill/job requirement.

### 1.10.4 Skill.Jobs



**Fig 1.14 : Skill.Jobs**

Skill.Jobs has inappropriate search results. Search results using one keyword comes with varieties of job circulars. No searching suggestion when typing a common keyword. System doesn't recommend job circular/job seeker according to user's skill/job requirement.



### 1.10.5 bdjobstoday.com



Fig 1.15 : bdjobstoday.com

Bdjobstoday.com has a very poor UI. This site lacks of quality. User Experience (UX) is not good at all. No searching suggestion when typing a common keyword. System doesn't recommend job circular/job seeker according to user's skill/requirements.



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## Chapter 2: Software Requirement Specification

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### 2.1 Project Summary

#### 2.1.1 Field Study:

We have chosen to develop a software for Online Job Portal.

We went to visit some companies and job seekers.

#### **Company :**

TigerIT Bangladesh Limited.

Address: House-21,Road-28,Block-K Banani, Dhaka, Bangladesh

DataSoft Inc.

Address: Rupayon Shelford,23/6,Mirpur Road,Shyamoli,Dhaka-1207

#### **Job Seeker :**

Shah Newaz Alam

Student of Jahangirnagar University

Interested in: Programming

Address: Road-22, House- 3, Block-D,Mirpur-12, Dhaka, Bangladesh.

Shahidul Hasan Bilash

Student of BUBT

Interested in: Software Designing

Address: Road-11, House: 20, Block-C, Mirpur-2, Dhaka, Bangladesh.

### **2.1.2 Background of the problem:**

The present job system requires applicants to search through print, visual media and online for job opportunities. Applicants need to apply for jobs using conventional methods and appear for interview on a specified date at a specified location. In the current system jobseekers had to send resumes and cover letters by mail and online, and then wait for an interview request. Employers need to manually check all the resumes and cover letter and also complete the formalities. The job application process took quite some time. Lot of time the employers can't find the perfect person whom they want and on the other hand, the job seeker can't find the job which department he skillful. This approach is tedious and requires much effort and resources. This process was equally frustrating for recruiters, as it often took some time to fill positions with qualified candidates. It takes also a long time for job seeker.

### **2.1.3 Solution of the problem:**

Solution to the problem is a web based job portal which analysis our data. Online recruitment is one of the most active ecommerce areas; the growth of web recruitment has been driven by a combination of actual costs savings in the recruitment process, increased ease and efficiency for the employer along with an improved experience for candidates.

The proposed system is a web based application which allows applicants and employers to register their details. And the system analysis the applicants and employers data and refer the best candidates for employers and on the other side the system refer the best job for jobseeker. Applicants can browse through the vacancy details that are posted and can apply for the jobs online. Employers can browse through the referred resumes and select suitable candidates. That can saves both employers and jobseekers time. Search facility for job seekers per their required vacancy. After leaving this job the employers can review the job seeker and also job seeker can review the company.

### 2.1.4 User Story:

In this system there are three types of users – Admin, Job Seeker and Employer.

#### **Job Seeker's perspective:**

To use the system Job seeker must have an account with a verified mail and phone number. Job seeker creates his/her profile with complete details that contains detailed personal information, education qualification and professional experience. A job seeker must include a resume and a portfolio.

A job seeker can update own profile and the resume syncs according to the profile's information.

When Job seeker logs on to the system, the system analyze data and recommends preferable job circulars according to the job seekers resume on the user's feed.

Job seeker can search post and company. Job seeker also can sort posts and companies using different criteria.

Job seeker can apply for job in a job post. And the Resume is automatically send to the employer when the Job Seeker applies.

Job seeker can also remove his account if he/she wishes.

#### **Employer's perspective:**

Employer also needs an account to use the system. Employer represents a company and the profile of a company includes details information about the company.

Employer can create a job post and can specify criteria. Employer is also able to modify and delete the post.

Employer can view all resumes of interested Job Seeker who applies to the job post. Moreover the system recommends the employer some specific resumes that fits the requirements by analyzing data that are mentioned in the circular.

Employer can send message and call up letter to job seekers who are eligible for the job interview.

Employer also can rate Job seeker with detailed review after leaving a job.

#### **Admin's perspective:**

Admin can monitor and delete user and employers accounts and posts. Admin can also handle money transactions.

## 2.2 Project Scope

In Scopes :

- User registration(jobseeker, employer)
- Log in(jobseeker, employer)
- Update Profile(jobseeker, employer)
- Add resume(jobseeker)
- Apply for job(jobseeker)
- System recommendation
- Add portfolio(jobseeker)
- Rating (jobseeker, employer)
- Job circular post(employer)

Out of Scopes :

- Payments (admin)

## 2.3 Requirement Analysis:

### 2.3.1 System Features:

Sl.no.	Feature name	Priority
01	Register into the website	Must
02	Manage account settings	Must
03	Manage profile	Must
04	Manage resume	Must
05	Manage portfolio	Must
06	Create job circular	Must
07	View job circular	Must
08	Manage job circular	Must
09	Bookmark job circular	Should
10	Delete job circular from bookmark	Should
11	Apply to a job circular	Must
12	View resume	Must
13	Bookmark resume	Should
14	Delete resume from bookmark	Should
15	Send message to job seeker	Could
16	View message of job provider	Could
17	Send call-up letter to job seeker	Must
18	Reviewing a person	Should
19	Reviewing a company	Should
20	Payment and transactions	Must

**Table 2.1 : System features**

### 2.3.2 Functional Requirements: Job seeker

Sl.no.	Title	Description	Dependency
FR1	Registration to the system	In order to use the system job seeker must register to the system	None
FR2	Login to the system	In order to use the system with verified account a registered job seeker must login to the system	FR1
FR3	Retrieve the password	A registered user should be able to retrieve the password by email	None
FR4	Update account settings	A valid user should be able to update own account settings	FR1,FR2
FR5	Create profile	A valid job seeker should be able to create a complete profile	FR1,FR2
FR6	Update profile	A valid job seeker should be able to update his/her profile	FR1,FR2
FR7	Create portfolio	A valid job seeker should be able to create his/her portfolio	FR1,FR2
FR8	Update portfolio	A valid job seeker should be able to update his/her portfolio	FR1,FR2
FR9	Resume sync with profile	Job seeker's resume should automatically sync according to the profile	
FR10	Search job circular	A valid job seeker should be able to search jobs	FR1,FR2
FR11	Sort job circulars	A valid job seeker should be able to search jobs by sorting into different categories	FR1,FR2
FR12	Search company	A valid job seeker should be able to search any company	FR1,FR2
FR13	Sort company	A valid job seeker should be able to search companies by sorting into different categories	FR1,FR2
FR14	View job circulars	A valid seeker should be able to view job circulars	FR1,FR2
FR15	View company	A valid job seeker should be able to view a company's profile	FR1,FR2,FR14
FR16	Bookmark a job circular	A valid job seeker should be able bookmark any job circular	FR1,FR2,FR14
FR17	Unmark a job circular	A valid job seeker should be able to unmark a job circular from the bookmark list	FR1,FR2,FR16
FR18	Subscribe a company	A valid job seeker should be able to subscribe a company to get notifications from the company	FR1,FR2,FR15
FR19	Un-subscribe a company	A valid job seeker should be able to unsubscribe a company	FR1,FR2,FR15,FR18

Sl.no	Title	Description	Dependency
FR20	Apply to a job	A valid job seeker should be able to apply to a job from a job circular to send his/her resume	FR1,FR2,FR5,FR14
FR21	View messages from employer	A valid job seeker should be able to view messages received from the employer	FR1,FR2
FR22	View call-up letter	A valid job seeker should be able to view call-up letter received from employer	FR1,FR2
FR23	Complete payment	A job seeker should be able to complete his payment to valid the account	FR1,FR2

**Table 2.2: Functional requirements (Job seeker)**

### 2.3.3 Functional requirements: Employer

Sl.no.	Title	Description	Dependency
FR24	Register to the system	In order to use the system an employer must register to the system	None
FR25	Login to the system	In order to use the system with verified account a registered employer must login to the system	FR24
FR26	Retrieve the password	A registered user should be able to retrieve the password by email	None
FR27	Update account settings	A valid user should be able to update own account settings	FR24,FR25
FR28	Create profile	A valid employer should be able to create a complete profile	FR24,FR25
FR29	Update profile	A valid employer should be able to update his/her profile	FR24,FR25
FR30	Create job circular	To hire employee from interested job seekers an employer should be able to create job circular	FR24,FR25
FR31	Manage job circular	A valid employer should be able to edit, delete a job circular posted by him/her.	FR24,FR25,FR30
FR32	View resume	A valid employer should be able to view resumes of candidates who applied to a job circular posted by him/her.	FR24,FR25,F30
FR33	Bookmark resume	A valid employer should be able to bookmark a candidate's resume for future purpose.	FR24,FR25,FR32
FR34	Unmark resume	A valid employer should be able to unmark a candidates resume from the bookmark list	FR24,FR25,FR32

FR35	View portfolio	A valid employer should be able to view candidate's portfolio who applied for job	FR24,FR25,FR32
FR36	Send message	A valid employer should be able to send message to a job seeker for instructions.	FR24,FR25,FR32
FR37	Send call-up letter	A valid employer should be able to send call-up letter to candidates.	FR24,FR25,FR32
FR38	Complete payment	To valid the account an employer should be able to complete the payment	FR24,FR25

**Table 2.3: Functional requirements (Employer)**

### 2.3.4 Functional requirements: Admin

Sl.no.	Title	Description	Dependency
FR39	Login to the system	An admin must be logged in to use the system	None
FR40	Retrieve password	An admin should be able to retrieve the password by email if he/she forgets the password	
FR41	View post lists	An admin should be able to view the list of posts	FR39
FR42	View posts	An admin should be able to view posts	FR39
FR43	View accounts list	An admin should be able to view the list if all accounts	FR39
FR44	View profiles	An admin should be able to view profile of any user	FR39
FR45	Block user	An admin should be able to block any user	FR39
FR46	Add new admin	The head admin should be able to add new admin	FR39
FR47	Suggest new admin	An admin can suggest to make a new admin to the head admin	FR39
FR48	Handle transactions	An admin can handle user's transactions for the account	FR39



**Table 2.4: Functional requirement (Admin)****2.3.5 Non-functional requirements:**

Sl.no.	Title	Description	Dependency
NFR1	Unique username	The user should have an unique username	None
NFR2	Unique contact number	The user should have an unique contact number	None
NFR3	Format of password	The length of user's password should contain at least 8 digits also contains capital letter, small letter and special symbol	None
NFR4	Unique email address	The email address of an user should be unique	None
NFR5	Error message	For every invalid input and empty text field the system should generate an error message for the user	None

**Table 2.5: Non-functional requirements****2.4 Overall Description****2.4.1 Operating Environment**

The software will run in a hosting service named Hostgator and this domain can be accessed via any windows or android platform through any browser like Google Chrome, Mozilla, and Microsoft Edge etc.

**2.4.2 Design & Implementation Constraints**

“Online Job Portal” can be run in any processing system like dual-core, quad-core, hexa-core, octa-core etc. Much higher configured system and well developed operating system will help to run this system more smoothly.

### 2.4.3 Assumption and Dependencies

There is a dependency of the software and it is,

- A good structured and secured hosting service to store the data & files.
- Good internet connection

### 2.4.4 Communication Interface

- Internet connection.

### 2.4.5 Minimum Hardware Requirement

#### Server Side:

- OS : Linux/Windows Server
- CPU: Xenon E7
- RAM: 30 GB or higher
- Hard Drive: 50 TB or more

#### Client Side:

- Operating System: any operating system with webpage browsing accessibilities
- CPU (PC): Minimum Intel Pentium or higher
- Operating System (Android): any operating system with webpage browsing accessibilities
- CPU (Android): Mali-400MP4 or higher
- RAM: 512 MB or higher

### 2.4.6 Software Interfaces

- Database: MySQL
- Programming language: Python and Js .
- Design: Html 5, CSS 3, Bootstrap \* Framework: Django and React Js
- Development tool: Sublime text Editor[8],Atom

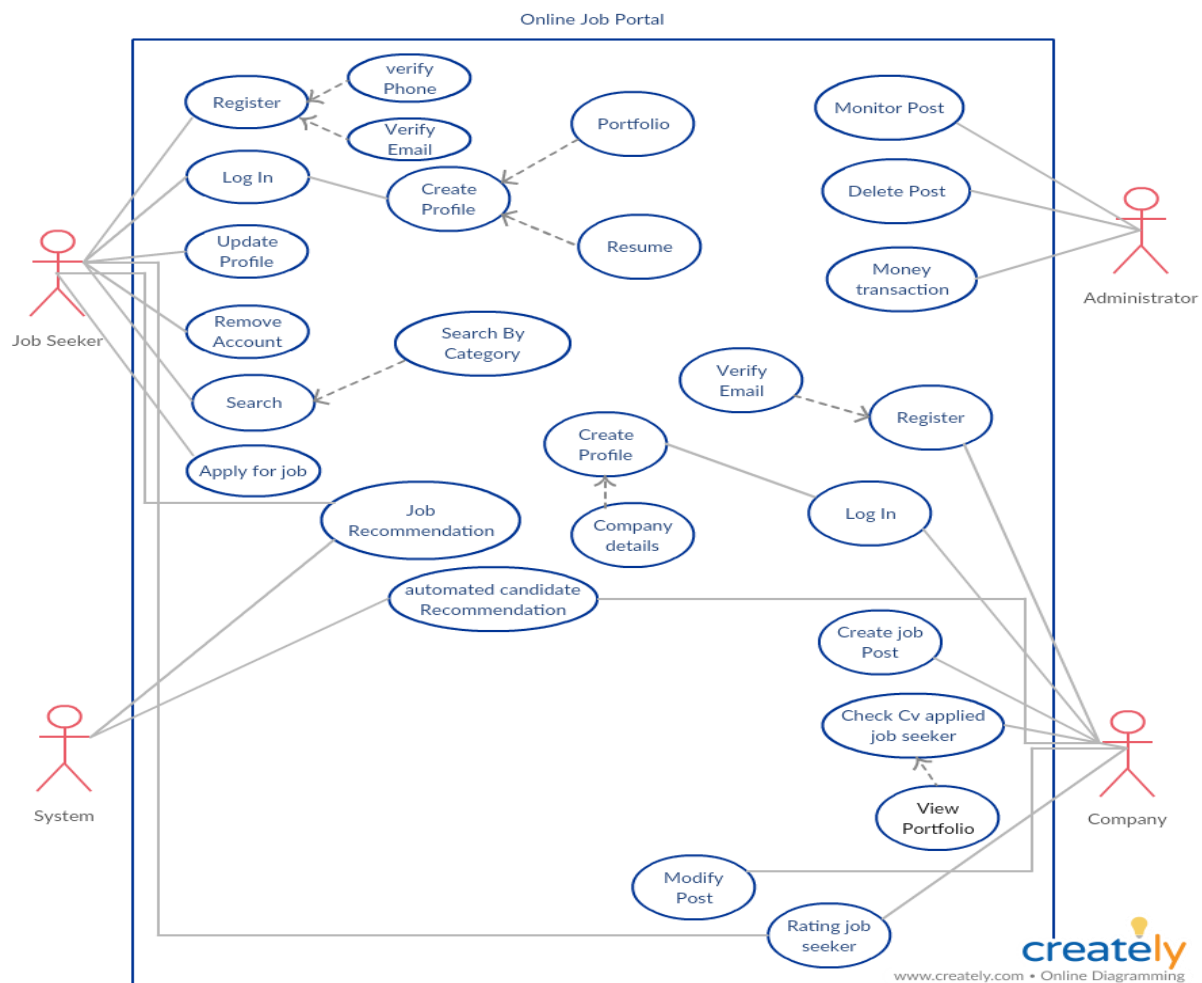
## Chapter 3: Software Design Specification Plan

### 3.1 Introduction

In software design specification plan there will be some system diagrams, some software UI screenshots, architecture plan and system overview.

### 3.2 System Overview

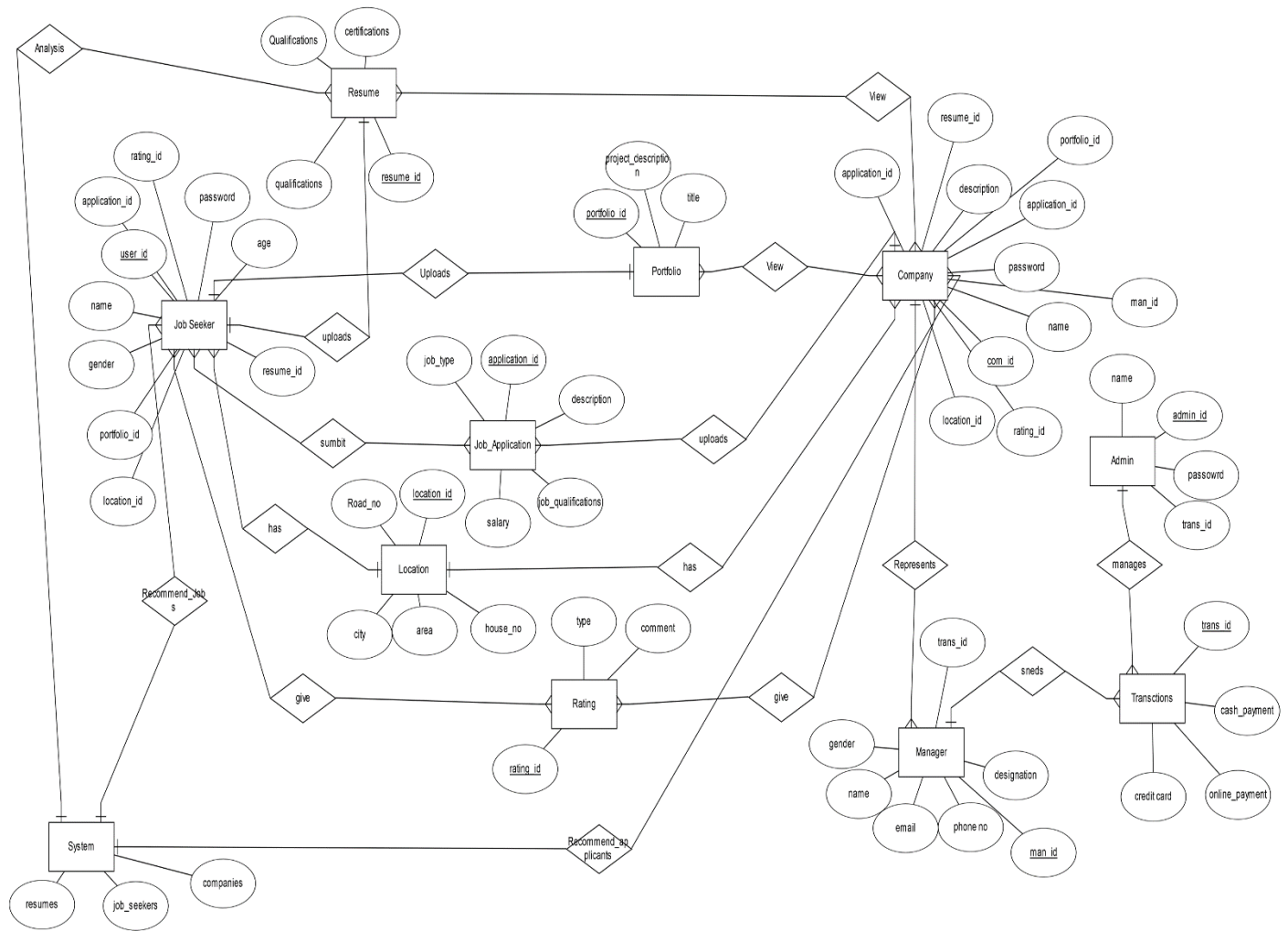
#### 3.2.1 Use Case



**Fig 3.1: Use Case Diagram**

## 3.3 System Architecture

### 3.3.1 ER Diagram



**Fig 3.2: ER Diagram of the system**

### 3.3.2 Class Diagram

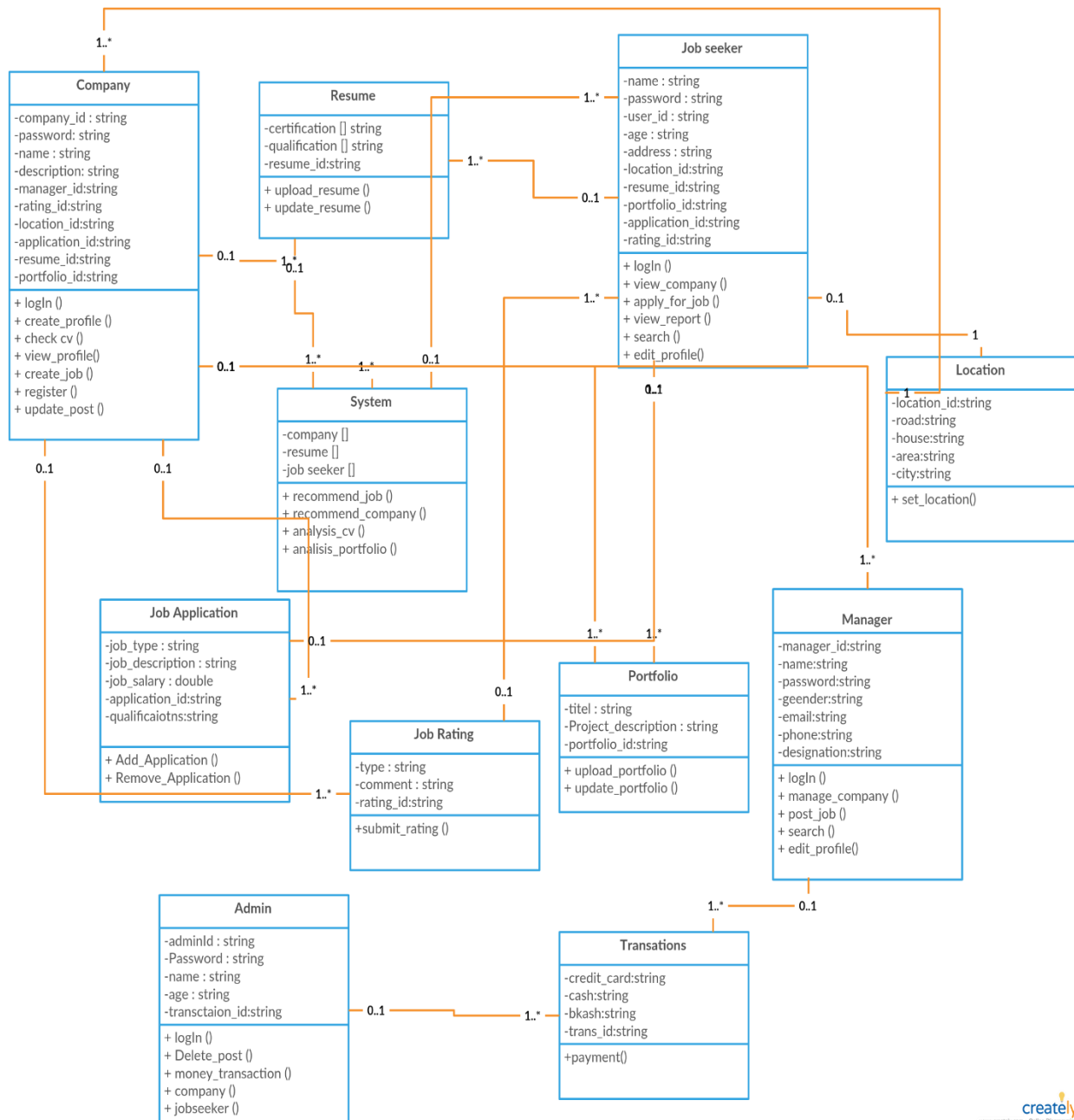


Fig 3.3: Class Diagram



### 3.3.4 Sequence diagram

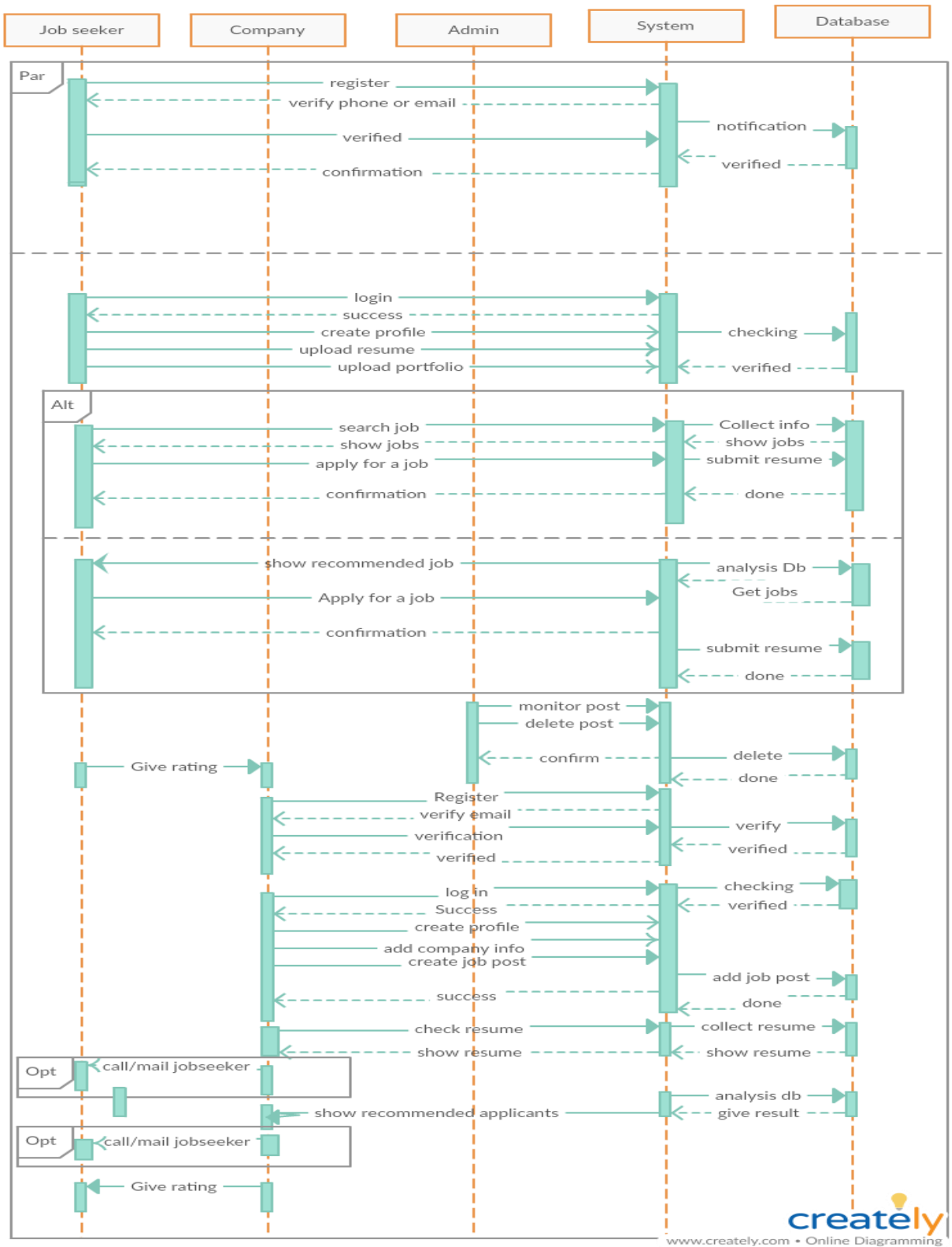


Fig 3.5: Sequence Diagram

## 3.4 Human Interface Design [UI Design]

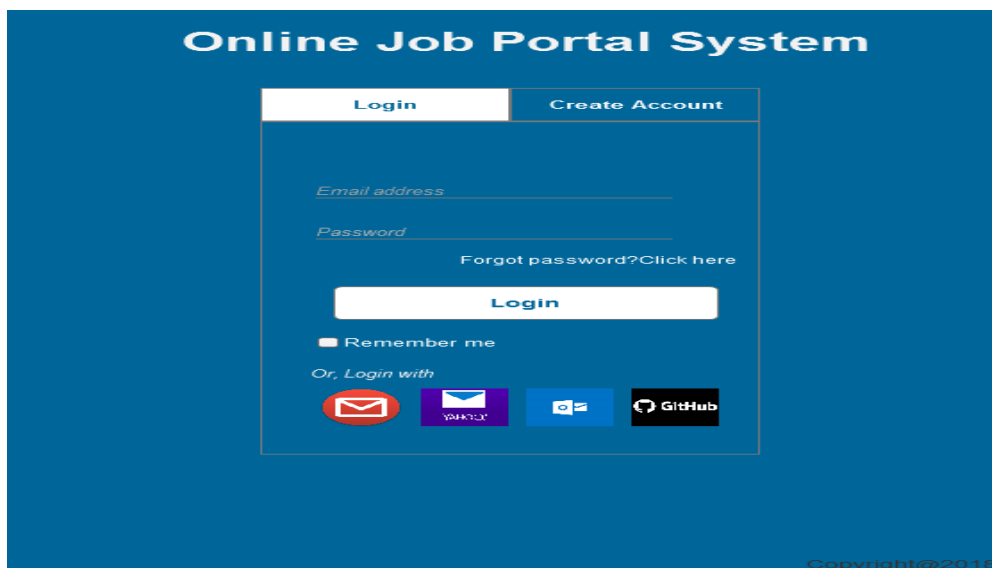
### 3.4.1 Registration



The registration view features a blue background with the title "Online Job Portal System" at the top. Below the title are two tabs: "Login" and "Create Account". The "Create Account" tab is active. Under this tab, there is a section for "Account type:" with two radio buttons: "Job Seeker" (selected) and "Job Provider". Below this are six input fields with placeholder text: "Choose username", "Enter email address", "Choose password (8 characters or more)", "Confirm password", "Contact no", and "Enter verification code". A checkbox labeled "I agree all the terms & conditions" is positioned above a large white "Confirm" button.

Fig 3.6: Registration view

### 3.4.2 Log in



The login view features a blue background with the title "Online Job Portal System" at the top. Below the title are two tabs: "Login" and "Create Account". The "Login" tab is active. Under this tab, there are two input fields with placeholder text: "Email address" and "Password". Below the "Password" field is a link that says "Forgot password?Click here". A large white "Login" button is positioned below the input fields. Below the button is a checkbox labeled "Remember me". At the bottom, there is a section titled "Or, Login with" followed by four social media icons: Email, Yahoo!, Outlook, and GitHub. A copyright notice "Copyright©2019" is visible in the bottom right corner.

Fig 3.7: Login view



### 3.4.3 Job seeker

#### 3.4.3.1 Job seeker profile (Personal Info)

**Online Job Portal System**

[FAQ](#) | [Logout](#)

**Complete your profile: Personal Information**

[Upload profile picture](#)

First name \_\_\_\_\_ Middle name \_\_\_\_\_ Last name \_\_\_\_\_

Father's name \_\_\_\_\_ Mother's name \_\_\_\_\_

D.O.B  Nationality  Religion  Blood group

Full address \_\_\_\_\_

Email address \_\_\_\_\_

Contact no \_\_\_\_\_

**Next**

Fig 3.8: Job seeker's personal information view

#### 3.4.3.2 Job seeker profile (Educational qualification)

**Online Job Portal System**

[FAQ](#) | [Logout](#)

**Complete your profile: Educational Qualification**

**1) School :**

Institute

Result  Out of 6

Passing Year

**2) College / Equivalent:**

Institute

Result  Out of 6

Passing Year

**3) Bachelor / Equivalent:**

Subject

Institute

Result  Out of 6

Passing Year

**4) Master's :**

Subject

Institute

Result  Out of 6

Passing Year

**5) Others :**

Degree

Subject

Institute

Result  Out of 6

Passing Year

**Back** **Next**

Fig 3.9: Job seeker's educational information view

### 3.4.3.3 Job seekers profile (Professional info)

**Online Job Portal System** [FAQ](#) | [Logout](#)

**Complete your profile: Professional Experience** ☐ Experienced

1) Company / org.   
 Designation   
 Year of exp.   
 Attach doc. [Data Sot. Inc. clearence certificate](#)

2) Company / org.   
 Designation   
 Year of exp.   
 Attach doc. [Grameenphone BD certificate](#)

3) Company / org.   
 Designation   
 Year of exp.   
 Attach doc.

1 2 >

Fig 3.10: Job seeker's Professional information view

### 3.4.4 Job seeker's portfolio

**Online Job Portal System** [FAQ](#) | [Logout](#)

**Portfolio :**

1) Project name  Role   
 Description  Link

1) Project name  Role   
 Description  Link

1) Project name  Role   
 Description  Link

1 2 >

Fig 3.11: Job seeker's portfolio view

### 3.4.5 Job seeker's resume

## Online Job Portal System

[FAQ](#) | [Logout](#)

**Resume:**

*Personal informations:* [click to view full details](#)

*Full name* Mr. X

*About me*


*Motivation*

*Email address* abc@gmail.com

*Contact no* 017XXXXXXX

*D.O.B* 18-12-1996

*Nationality* Bangladeshi



*Professional informations:* [click to view full details](#)

*Skills* C++ , C# , Php , Laravel , Software Quality & Testing , Software Architect

*Preferences* Software developer, Software tester , Software Architect

*Certifications*

*\*Portfolio link* <https://ojps.com/u/0/portfolio/hi1bAd3#1Ga>

*Educational qualification:* [click to view full details](#)

*Bachelor* American Internation University Bangladesh

*Subject* Computer Science & Software Engineering

*Master's* Institute of Business Adminstration(Universitu of Dhaka)

*Subject* Management & Flnance

*References :*

*Name*

*Work*

*Designation*

**Fig 3.12: Job seeker's resume view**

### 3.4.6 Job seeker's home

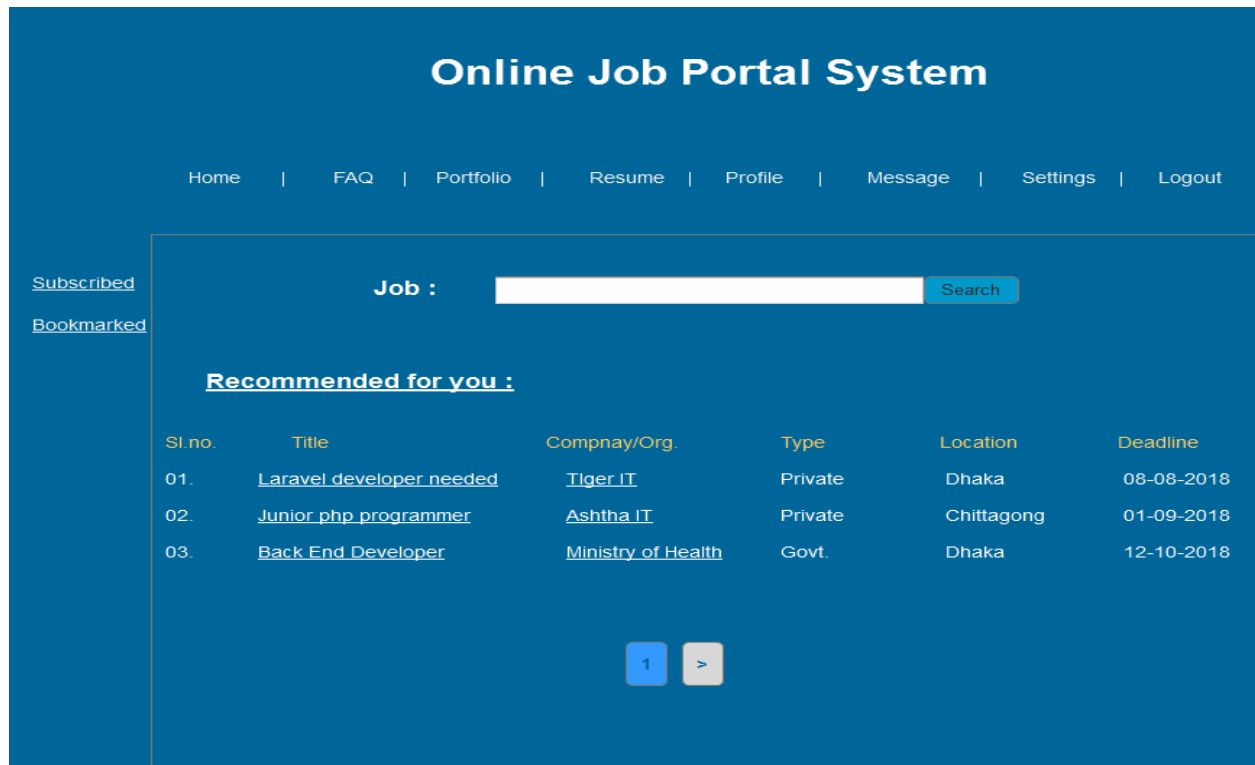


Fig 3.13: Job seeker's home view

### 3.4.7 Job search

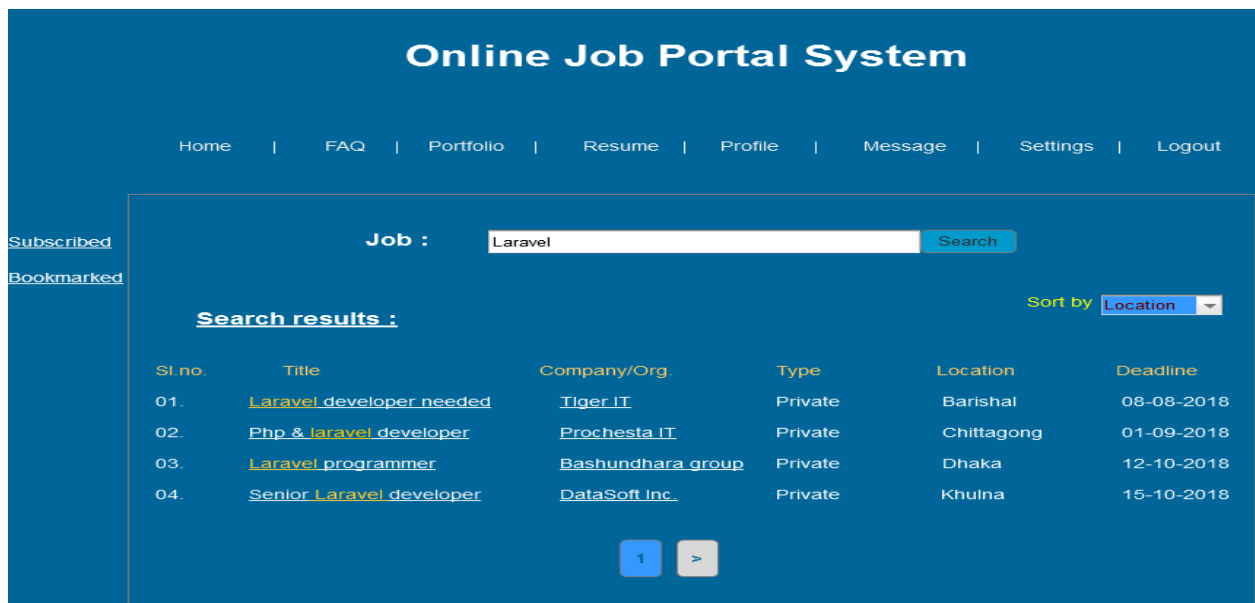


Fig 3.14: Job seeker's job search view

### 3.4.8 View job circular & send resume

[Subscribed](#)
[Bookmarked](#)

Job :

Search

[View post](#)

Bookmark

Company Name:

Data Soft Inc.

Type of the job :

Private

Job Title:

PHP Developer

Number of vacancy:

02

Job Description:

We are looking for Web Developer with high skills and experiences in PHP, Laravel and CodeIgniter Framework

Responsibilities:

We are looking for a Senior PHP developer with strong understanding of the PHP programming language. Ability to work on vibrant and exciting projects all around the world, mainly enterprise solutions that web start-ups & custom web applications. Working alongside experienced front-end and back-end developers as well as include large scale our design team.

Education:

Minimum Bachelor in CSE / Software Engineering / or any IT related subject from a reputed university.

Special criteria

Minimum 18 years old

Employment Status

Full-time

Experience

At least 3 years

Job location

Dhaka

Salary

Negotiable

Deadline

18-10-2018

Back

Send Resume

Fig 3.15: Job circular view & send resume view

### 3.4.9 View employers message

The screenshot shows the 'Online Job Portal System' interface. The top navigation bar includes links for Home, FAQ, Portfolio, Resume, Profile, Message, Settings, and Logout. On the left sidebar, there are links for 'Subscribed' and 'Bookmarked'. The main content area is titled 'Message:' and displays a message from 'DataSoft Inc.'. The message body states: 'Hello dear applicant ! You have been selected for an Interview on 20-10-2018 at 12:00 p.m. at our corporate office.' Below the message, there are 'Special Instructions:' which include: 'Please report at least 1 hour before the interview time with these documents- i) All academic transcripts ii) Character certificate iii) NID photocopy iv) Additional certificates (\*if any)'. A 'Back' button is located at the bottom right of the message area.

Fig 3.16: Job seeker view employer's message

## 3.5 Company

### 3.5.1 Company Profile

The screenshot shows the 'Online Job Portal System' interface for the 'Complete your profile' section. The top navigation bar includes links for FAQ and Logout. On the right, there is a profile picture placeholder with the text 'Upload profile picture'. The form fields include: 'Company/Org. Name:' with a 'Full name' label; 'Company/Org. type:' with radio buttons for 'Govt.' and 'Private'; 'About the company:' with a text area; 'Mission & Vision:' with a text area; 'Year of establishment:' with a 'Year of establishment' label; 'Corporate office address:' with a 'Full address' label; 'Head office address:' with a 'Full address' label; 'Email address:' with an 'Email address' label; and 'Contact number:' with a label. A 'Next' button is located at the bottom right of the form.

Fig 3.17: Company profile view

### 3.5.2 Create Post

**Online Job Portal System**

Home | FAQ | Create Post | View My Posts | Applicant's resumes | Profile | Settings | Logout

**Create post:** [Create call up letter for this post](#)

Bookmarked

Job Title:

Number of vacancy:

Job Description:

Responsibilities:

Education:

Special criteria:

Employment Status:

Experience:

Job location:

Salary:

Deadline:

Back Post

Fig 3.18: Create post view

### 3.5.3 Resume list

**Online Job Portal System**

Home | FAQ | Create Post | View My Posts | Applicant's resumes | Profile | Settings | Logout

**Applicant's Resumes:**

Post Title:

**Recommended for you :**

Sl.no.	Name	View Resume
01.	Mr.A	<a href="#">View</a>
02.	Mr.B	<a href="#">View</a>
03.	Mr.X	<a href="#">View</a>


1 2 >

Fig 3.19: Resume list view

### 3.5.4 View job seekers resume

**Online Job Portal System**

Home | FAQ | Create Post | View My Posts | Applicant's resumes | Profile | Settings | Logout

**Resume:** 

**Personal Informations:** [click to view full details](#)

Full name: Mr. X  
 About me: I am .....  
 Motivation: My .....  
 Email address: abc@gmail.com  
 Contact no: 017XXXXXXX  
 D.O.B: 18-12-1996  
 Nationality: Bangladeshi

**Professional Informations:** [click to view full details](#)

Skills: C++ , C# , PHP , Laravel , Software Quality & Testing  
 Preferences: Full-Stack Developer , Software Tester  
 Certifications: Certified Tester (BITM)  
 \*Portfolio link: https://ojps.com/u/0/portfolio/h11bAd3#1Ga

**Educational qualification:** [click to view full details](#)

Bachelor : American Intenation University Bangladesh  
 Subject : Computer Science & Software Engineering  
 Master's : Institute of Business Adminstration(Universitu of Dhaka)  
 Subject : Management & Finance

**References :**

Name: Mr. Y  
 Work: ABC Org.  
 Designation: Business Analyst

**Message Call-up letter**

Fig 3.20: View Resume

### 3.5.5 View company's job circular

**Online Job Portal System**

Home | FAQ | Create Post | View My Posts | Applicant's resumes | Profile | Settings | Logout

**View My Posts :**

Post Title:  Manage post

**Job Title:** PHP Developer  
**Number of vacancy:** 02

**Job Description:** We are looking for Web Developer with high skills and experiences in PHP, Laravel and CodeIgniter Framework

**Responsibilities:** We are looking for a Senior PHP developer with strong understanding of the PHP programming language. Ability to work on vibrant and exciting projects all around the world, mainly enterprise solutions that web start-ups & custom web applications. Working alongside experienced front-end and back-end developers as well as include large scale our design team.

**Education:** Minimum Bachelor in CSE / Software Engineering / or any IT related subject from a reputed university.

**Special criteria** Minimum 18 years old

**Employment Status** Full-time

**Experience** At least 3 years

**Job location** Dhaka

**Salary** Negotiable

**Deadline** 18-10-2018

Fig 3.21: Company Post view



### 3.5.6 Callup letter

The screenshot shows the 'Create call-up letter' form within the 'Online Job Portal System'. The form has a blue header with the system name and a navigation bar with links: Home, FAQ, Create Post, View My Posts, Applicant's resumes, Profile, Settings, and Logout. On the left, there is a 'Bookmarked' link. The main form area is titled 'Create call-up letter:' and contains two text input fields. The first field, labeled 'Body:', contains the text: 'Hello dear applicant ! You have been selected for an Interview on 20-10-2018 at 12:00 p.m. at our corporate office.' The second field, labeled 'Special Instructions:', contains the text: 'Please report at least 1 hour before the interview time with these documents- i) All academic transcripts ii) Character certificate iii) NID photocopy iv) Additional certificates (\*if any)'. At the bottom right of the form is a 'Done & Back' button.

Fig 3.22: Call-up letter view

### 3.6 Payment

The screenshot shows the 'Payment' form within the 'Online Job Portal System'. The form has a blue header with the system name and a navigation bar with links: Home, FAQ, Create Post, View My Posts, Applicant's resumes, Profile, Settings, and Logout. On the left, there is a 'Bookmarked' link. The main form area is titled 'Payment:' and contains several input fields. The 'Pay with' dropdown menu is set to 'MasterCard'. There is a checkbox labeled 'Save this account'. The 'Card holder name:' field is split into 'First name' and 'Last name' sub-fields. The 'Card number:' field is a single line. The 'Security no.' field is a single line. The 'Amount:' is set to '\$1' and the 'For the month:' is set to 'August'. At the bottom right of the form are two buttons: 'Back' and 'Pay'.

Fig 3.23: Payment view

### 3.7 Account Settings

**Online Job Portal System**

Home | FAQ | Portfolio | Resume | Profile | Message | Settings | Logout

[Subscribed](#)  
[Bookmarked](#)

**Manage Account Settings:**

Create New Password:

Confirm New Password:

Update Contact no  Verification code

Update Profile: [Update personal informations](#)  
[Update educational informations](#)  
[Update professional informations](#)

Update portfolio: [Update portfolio](#)

**Fig 3.24: Account settings view**

### 3.8 Admin

#### 3.8.1 Admin view

**Online Job Portal System**

Home | FAQ | Manage Posts | Manage Accounts | Handle Payments | Settings | Logout

**Handle Payments:**

Sl.no.	User	Type	Account Created	Payment	Action
01.	Mr.A	Job Provider	9 July,2017	Completed	<input type="button" value="Activate"/>
02.	Mr.B	Job Seeker	18 August,2017	Completed	<input type="button" value="Activate"/>
03.	Mr.X	Job Seeker	10 January,2018	Incomplete	<input type="button" value="Limit activities"/>

**Fig 3.25: Admin view**

## Chapter 4: Project Management

### 4.1 Project Scheduling

**Table 4-A: Project Schedule**

Task	Time (Week)
Field study	0-2
Study on previous works	2-4
Study on SDLC	1-3
Prepare user story	3-5
Identify user requirements	5-6
Develop Use case diagram	6-7
Develop Class diagram	6-7
Develop E-R diagram	6-8
Prototyping	8-10
Create Database	11-12
Create user interface	13-14
Software Development	15-21
Software Testing and Debugging	22-23
Documentation	19-25

**Total Project Time: 25 Weeks**

## 4.2 Staffing Plan

**Table 4-B: Staffing Plan**

Role	Name	Project Responsibility	Skills Required	No. of Staff	Estimated Start Date	Duration Required
Project Manager	Md. Shamsur Rahim	Lead team, report status	Project Management	1		5 months
Core Team	Shahadat	Review deliverables, assure quality	Project Management	4		4 months
	Rafi					
	Sourav					
	Istiaq					
WEB Developer	Shahadat	Create framework content	Web development	1		3 months
Web Developer	Sourav	Build the web-based performance management tool	Web development	1		3 months
UI Designer And Documentation	Rafi	Design UI  And Write Document of Software	Web design,  And writing skills	1		3 months
Review Team	Istiaq	Evaluate deliverables, promote use	Project Management experience	1		2 months

## 4.3 Project Management Tool (Trello)

Trello was used as our project management and issue tracking tool [13].

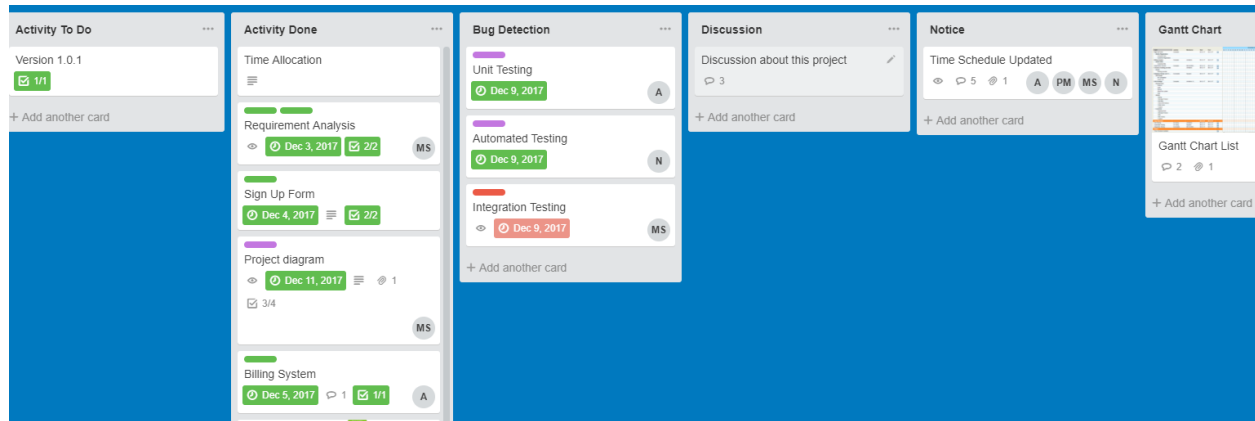


Fig: 4.1 Trello project Homepage

## 4.4 Repositories (Github)

We used Github as our online repository. Using Git we used the repository from everyone's computer.

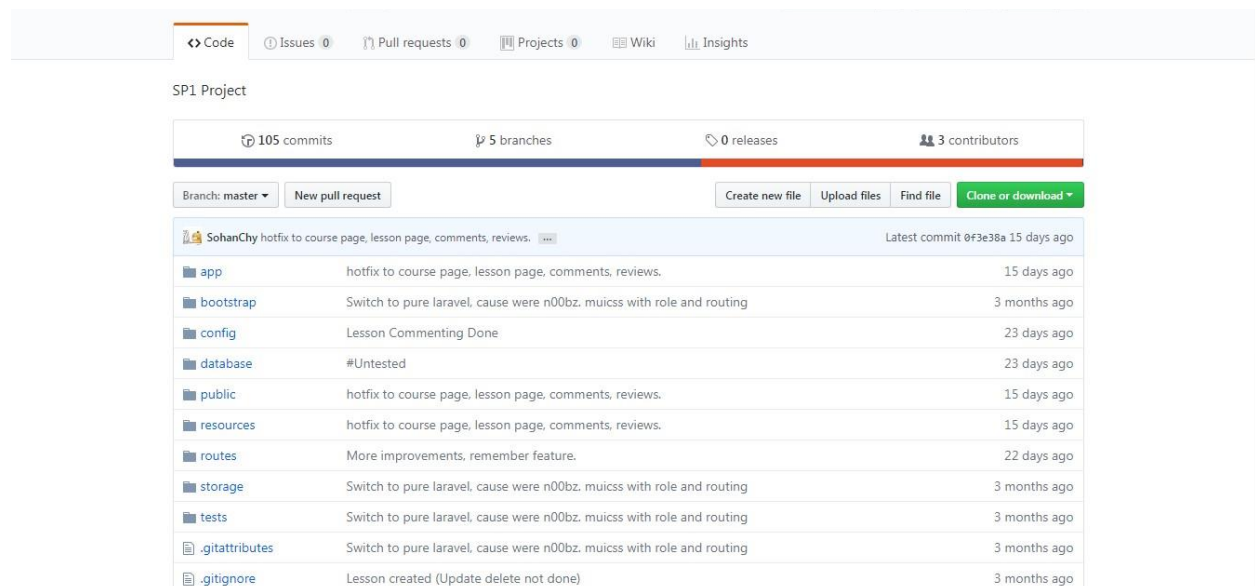


Fig: 4.2 Repository folders

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## References

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- [1] What is SDLC? Understanding the Software Development Life Cycle [Online]  
Available: <https://stackify.com/what-is-sdlc/>
- [2] Software Development Life Cycle (SDLC) [Online] Available:  
<http://searchsoftwarequality.techtarget.com/definition/systems-development-life-cycle>
- [3] BdJobs available : <http://www.bdjobs.com/>
- [4] Chakri available : <https://www.chakri.com/>
- [5] Sublime Text 3.0. Software available : <https://www.sublimetext.com/>
- [6] Github. Available: <https://github.com/>
- [7] Trello: <https://www.trello.com/>



