Veer Narmad South Gujarat University, Surat.

Department of Information and Communication Technology

M.Sc. (Information Technology) Programme

Project Report

8th Semester

M.Sc. (Information Technology) 5 Year Integrated Course

Year 2021 - 2022

Recruitment Management System

Guided By:

Submitted By:

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Certificate

This is to certify that Mr./Ms. <u>Mandviwala Priva Sanjavbhai</u> with Exam Seat Number: <u>2018013465</u> and PG Registration Number: <u>F1811018000610056</u> has worked on his/her part time project work entitled <u>Recruitment Management System</u> as a partial fulfillment of the requirements for <u>8th Semester - M.Sc. (Information Technology) [5 Year Integrated course]</u>, during the academic Year 2021-2022.

Date: 17th June,2022

Place: Dept. of ICT, VNSGU, Surat.

Internal Project Quide
M.Sc.(I.T.) 8th Semester
Department of I.C.T.
Veer Narmad South Gujarat University,
Surat

Head of the Department

Head of the Department
Department of I.C.T.
Veer Narmad South Gujarat University,
Surat

PROJECT OF M. Sc. (I.T.) PROGRAMME
VEER NARMAD SOUTH GUJARAT UNIVERSITY

Academic Year:

Approved By .
EXAMINERS

2 | Page

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From, Manisha Gami (2018013436) Priya Mandviwala(2018013465)

Index

Sr. No	Topics	Page no
1	Introduction	5
	Eg.Current System – about the existing system (manual or	
	s/w)	
2	Proposed System	5
	2.1 Scope	
	2.2 Objective	
	2.3 Constraints – things that cannot be done	
	2.3.1 Hardware Constraints	
	2.3.2.Software Constraints	
	2.4 Advantages	
	2.5 Limitation	
3	Environment Specification	8
	3.1 Hardware & Software Requirements	
	3.2 Development Description	
4	System Planning	9
	4.1 Feasibility Study	
	4.2 Software Engineering Model	
	4.3 Risk Analysis	
	4.4 Project Schedule	
_	4.4.1 Timeline Chart	4.7
5	System Analysis	15
	5.1 Detailed SRS(Module wise specification with Sections:	
	description,i/ps,events,o/p,validations,constraints)	
	5.2 UML Diagram	
	5.2.1 Use Case Diagram	
	5.2.3 Class Diagram	
	5.2.4 Activity Diagram	
	5.2.5 Sequence Diagram	
6	5.3 E-R Diagram	27
6	Software Design 6.1 Database Design	21
	6.2 Architecture Design(If you r using 3 tier application)	
7	Testing	33
/	7.1 Unit Testing	33
	7.2 Integration Testing	
8	Interface Design sitemap followed with page snapshots	35
9	Future Enhancement	47
10	Reference	48
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1 Introduction

Existing System

Attending walk-ins by the job seekers is always not possible by visiting from one place to another. Even at the recruitment center lots more paper work involved such as form filling, attaching necessary certificates and documents etc. A lot of investment has to be made from both the side. Recruiters have to give their advertisement in paper media such as newspaper, pamphlets etc which is again extra cost and even not reachable to wider region. Job seekers were not able to know about latest recruitment and not able to get their job even if they satisfy the eligibility condition.

2 Proposed System

Recruitment Management System will responsible to automate all the working process to reduce cost and save time. Recruiters will able to post their job and its type by which it will displayed to the job seekers dashboard based on their job type. Recruiters will able to search for employees based on qualification, colleges, get their contact info, view their resumes, profiles and even much more. Selected job seekers will have to go through recruitment process set by the recruiters such as aptitude test using offline exam mode, have telephonic interview and personal interview between recruiters and job seekers. Job seekers can able to search job on the basis of various category such as organization wise, using their skills, location wise, job type etc.

2.1 Scope

> Admin

- Recruitment system provides a platform to Companies and organization to hire a quality staff globally all across the world.
- Posts Jobs and finalize candidates.

> User

• It is useful for the person looking for job change or quality job.

2.2 Objective

- To act as middle man connecting jobseeker and provider.
- To facilitates job search and helps candidate to fetch a right job and apply online.
- To make it global.
- Provides better understanding between applicants and organization.
- Simplify the procedure.
- Determine who is compatible with company's culture.

2.3 Constraints

2.3.1 H/W Constraints

- Computer or laptop needs power supply.
- Cannot access through mobile.
- Internet connection required.

2.3.2 S/W Constraints

- Cannot access by other software except Apache Netbeans.
- Cannot access without required jar file.
- It need to Payara server for user software.

2.4 Advantages

1. Time-saving

No matter where you are, you can send out job postings anytime with Internet access. In other words, you can forget about the paperwork and the action of entering data manually. As a result, it will not only save time of organization, but the people who is in search of specific job.

2. Dynamic content.

Generate dynamic content could build up your branding in a successful way to attract top talents and to boost corporate culture.

3. Minimized hiring cost.

Labor costs in recruiting are usually high in terms of advertising, travel expenses etc. As a result, the hiring process usually takes up too much time and its cost could be minimized by implementing a software which allows you to post free job openings just by one click.

4. Effective.

Online recruitment is easily accessible to individuals, making it a more effective method of getting your posts noticed. Online job ads can be posted within few minutes and they can be easily posted on several social media platform with no waste of time.

5. Shorten hiring process.

The hiring process could be shortened by just clicking a few buttons to screen, filter, and sort applicants data and CV. Online recruiting streamlines the process of inviting or rejecting applicants one by one and inserting applicants' data manually is no longer needed.

6. Broader scope

By using recruitment software, recruiters will be helped in reaching a wider amount of candidates locally and abroad, at the same time job seekers will get notified with updated jobs.

7. Personalized design.

Your professional career page is tailored made accordingly to the graphical identity of the company. As a result, this will help you branding, underlining the company's identity and values.

8. Filtration tools.

Recruitment systems have filtration tools to help recruiters to find the ideal candidates with competencies that match the job position. Therefore, the filtration tools provided by e-recruitment systems speed up the process of

sorting the candidates according to experience, education, and many more criteria.

9. Flexible and easy.

There is no hassle in learning how to use an e-recruitment system. So, it is easy to use and provides a platform where all the companies could follow the hiring process.

2.5 Limitation

- ➤ High volume of responses.
- > Too impersonal.
- > Includes cost in managing email service.
- > There's a lot of competition.

3. Environment Specification

3.1.1 Hardware Requirement

Client side

RAM	512 MB
HARD Disk	10 MB
Processor	1.0 GHz

Server side

RAM	1 GB
HARD Disk	20 GB
Processor	20 GHz

Client side

Web Browser	Chrome or any Compatible Browser
Operating System	Windows Or any Equivalent OS

Server Side

Web Server	Payara		
Serverside Language	Java EE		
Database Server	Apache MYSQL		

3.2 Development Description

IDE: The IDE used for RMS is Apache Netbeans. The best Comprehensive IDE For JAVA developers on windows. Fully Packed with Sweet Array of tools and features to elevae and enhance every stage of software development.

API Development Environment : we have used Postman to test and develop the APIs..

4 System Planning

4.1 Feasibility Study

The Feasibility Study for the Project has been carried out on the basis of

- 1: Schedule
- 2: Technology
- 3: Resource Availability

1: Schedule Feasibility

- Project is Initialized with Specific Deadline
- ♣ The duration is allotted to complete the project within 10 weeks.
- ♣ The development and testing for project is modularized timewise.
- ♣ We require to determine whether the deadlines are mandatory or desirable .

2: Technology Feasibility

- ♣ The Project is Developed in Java EE.
- ♣ As such there is no risk involved as far as technical aspects of the project is concerned

3: Resource Availability

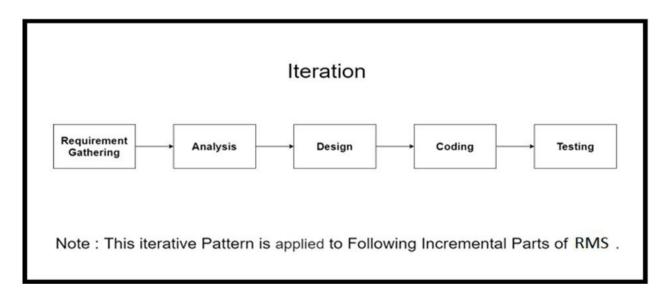
→ The Require hardware and software specifications is mentioned in the requirement section of documentation.

→ The team of developers is needed for different task like design, testing, development etc...

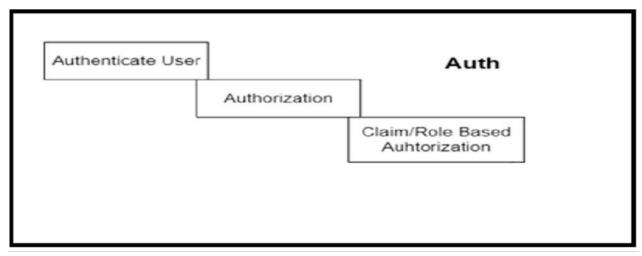
4.2 Software Engineering Model

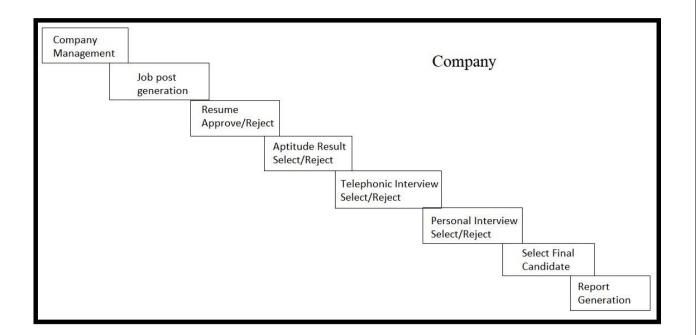
In the RMS, the requirements are decomposed into many small parts that can be incrementally developed. RMS adopts Iterative development. Each incremental part is developed over an iteration. Each iteration is intended to be small and easily manageable and that can be completed within a couple of weeks.

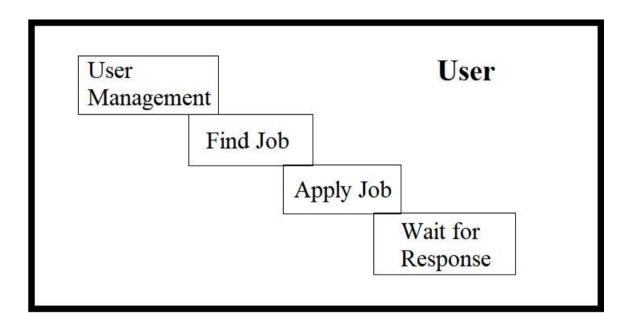
Agile Model



Incremental Modules







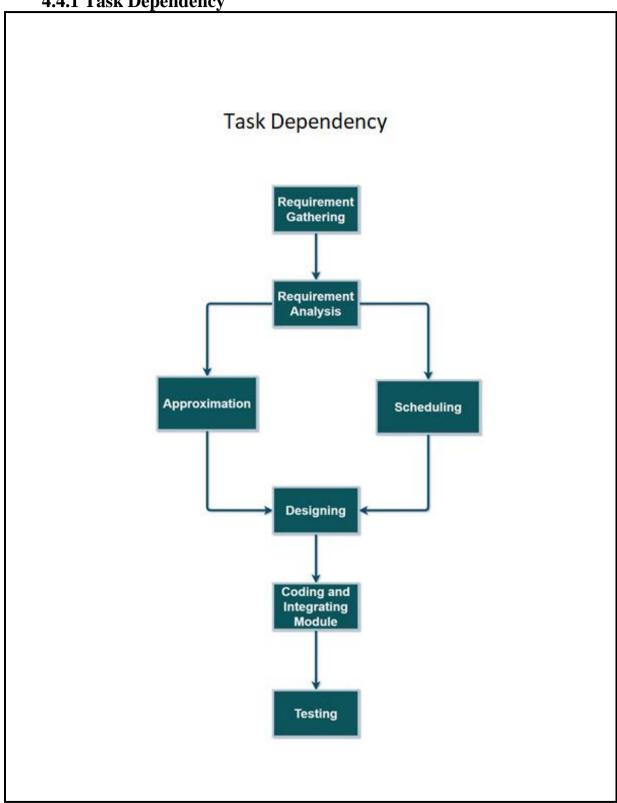
4.3 Risk Analysis

Risk description	Likelihood of the risk occurring	Impact ifthe risk occurs	Severity Rating based on impact & likelihood.	Owner Person who will manage the risk.	Mitigating action Actions to mitigate the risk e.g. reduce thelikelihood.	Contingent action Action to be taken if the riskhappens.	Progress on actions
Project purpose and need is not well-defined.	Medium	High	High	Project Sponsor	Complete a business case if not alreadyprovided and ensure purpose is well defined on Project Charter and PID.	Escalate to the Project Board with an assessment of the risk of runaway costs/never- ending project.	
Project design and deliverable definition is incomplete.	Low	High	High	Project Sponsor	Define the scope in detail via design workshops with input from subject matter experts.	Document assumptions made and associated risks. Requesthigh risk items that are ill- defined are removed from scope.	Design workshops scheduled.
Project schedule is not clearly defined or understood	Low	Medium	Medium	Project Manager	Hold scheduling workshops with the projectteam so they understand the plan and likelihood of missed tasks is reduced.	Share the plan and go through upcoming tasks at each weekly project progressmeeting.	Workshops scheduled.
No control over staff priorities	Medium	Medium	Medium	Project Manager	The Project Sponsor will brief team managers on the importance of the project. Soft book resources as early as possible andthen communicate final booking dates asapafter the scheduling workshops. Identify back ups for each human resource on the project.	Escalate to the Project Sponsor and bring in back up resource.	Project Sponsor has agreed to hold briefing. Now making arrangements for a meeting room.
Estimating and/or scheduling errors	Medium	High	High	Project Manager	Break this risk into two: 'cost estimating' and 'scheduling errors'. Use two methods of cost estimation, andcarefully track costs and forecast cost at completion making adjustments as necessary. Build in 10% contingency on cost andscheduling. Track schedules daily and include schedulereview as an agenda item in every projectteam meeting. Flag forecast errors and/or delays to the Project Board early.	Escalate to project sponsorand project board. Raise change request for change to budget or schedule. Pull down contingency.	Contingency agreed byProject Board.
Unplanned work that must beaccommodated	Low	High	Medium	Team Manager	Attend project scheduling workshops. Check previous projects, for actual workand costs. Check all plans and quantity surveys. Document all assumptions made in planning and communicate to the projectmanager before project kick off.	Escalate to the Project Manager with plan of action, including impact on time, costand quality.	Team managers attendingscheduling workshops.
Lack of communication, causing lack ofclarity and confusion.	Medium	Medium	Medium	Project Manager	Write a communication plan which includesfrequency, goal, and audience of each communication. Identify stakeholders early and make surethey are considered I the communication plan. Use most appropriate channel of	Correct misunderstandings immediately. Clarify areas that are not clear swiftly using assistance from	Communication plan inprogress.

					communication for audience e.g. don't send 3 paragraph email to Developers, have a call instead.	ProjectSponsor if needed.	
Risk description	Likelihoodof the risk occurring	Impact if the risk occurs	Severity Rating based on impact & likelihood.	Owner Person whowill manage the risk.	Mitigating action Actions to mitigate the risk e.g. reduce thelikelihood.	Contingent action Action to be taken if the riskhappens.	Progress on actions
Pressure to arbitrarily reduce task durations and or run tasks in parallelwhich would increase risk of errors.	Low	High	Medium	Project Manager	Share the schedule with key stakeholdersto reduce the risk of this happening. Patiently explain that schedule was builtusing the expertise of subject matter experts. Explain the risks of the changes. Share the Dennis Lock quote at https://www.stakeholdermap.com/plan-project/plan-reduction-crashing.html.	Escalate to Project Board with assessment of risk and impact of the change. Hold emergency risk management call with decision makers & source ofpressure and lay out risk and impact.	Awaiting completion of theschedule.
Unresolved project conflicts notescalated in a timely manner	Low	Medium	Medium	Project Manager	Hold regular project team meetings and look out for conflicts. Review the project plan and stakeholder engagement plan forpotential areas of conflict.	When aware immediately escalate to Project Board and gain assistance from Project Sponsor to resolve the conflict.	Project team meetingsscheduled.
Delay in earlier project phases jeopardizes ability to meet fixed date. Forexample delivery of just in time materials, for conference or launch date.	Medium	High	High	Project Manager	Ensure the project plan is as accurate aspossible using scheduling workshops andwork breakdown structure. Use TrackingGantt and Baseline to identify schedule slippage early.	Consider insurance to cover costs and alternative supplier as a back up.	Awaiting completion of theschedule.
Customer refuses to approve deliverables/milestones or delays approval, putting pressure on projectmanager to 'work at risk'.	Medium	Medium	Medium	Project Manager	Ensure customer decision maker with budgetary authority is identified before project start and is part of the project board. Communicate dates for sign-off points up front.		manager isconfirmin their sponsor / senio
Theft of materials, intellectual propertyor equipment.	Low	High	High	Project Manager	Follow security procedures, ensure Non- Disclosure Agreements (NDAs), & compliance certificates are in place. Verifyall physical security measures in place. Secure insurance.	Notify appropriate authorities e.g. police, project board and initiate internal investigations.	NDAs issued. Securit certificates confirme forcontractors.
Acts of God for example, extreme weather, leads to loss of resources, materials, premises etc.	Low	High	High	Project Manager	Ensure insurance in place. Familiarise project team with emergency procedures. Where cost effective put back up systems in place e.g. generators.	Notify appropriate authorities. Follow health andsafety procedures. Notify stakeholders and Project Board.	Public Liability Insuranceconfirmed along with additiona premises insurance at site B.

4.4 Project Schedule

4.4.1 Task Dependency



4.4.2 Timeline Chart

Task Name	Weeks (14 th February to 20 th February) (21 st March to 27 March) (28 th April to 16 th June)								
	1	2	3	4	5	6	7	8	9
Training									
Requirement Gathering									
Analysis									
Project Planning									
Designing									
Coding									
Testing									
Documentation									

5 System Analysis

5.1 Detailed SRS

Register Module:

Description:	In this module registerd company who want to add job or user who want ot take job.
I/O Events:	User details added.
O/P:	Access the site
Validatons:	Username:Required
	Password:Required

	Firstname:null Lastname:null Middlename:null gender:null phonenumber:Required colleagename:null colleageemail:null highestDegree:null emailid: Required address: Required countryid: Required stateid: Required cityid: Required pincode: Required level:null noofEmp:null companyname:null companydetail:null companyURL:null
Constraints:	Id: Primary Key Countryid:Foreign Key Stateid:Foreign Key Cityid:Foreign Key

Job Detail Module:

Description:	In this module registerd company can post job and change accordingly as their required.
I/O Events:	Any user can apply that particular job, Search Job With company name.
O/P:	When user apply he/she will Notify via email. View Job.
Validatons:	Title:Required Details:Required

	NoOfVacancy:Required			
	MinSalary:Required			
	MaxSalary:Required			
	CompanyUserName:Required			
	Lastdate: NotRequired			
	JobType:Required			
	BondYear:Required			
	CreatedDate:Null			
Constraints:	Id: Primary Key			
	CompanyUserName:Foreign Key			

Jobskillset:

Description:	In this module registerd company who posted job they add theri jobSkills. Accordingly which skill they need in that particular job
I/O Events:	None.
O/P:	User can see the job's skill. And Admin can change accordingly.
Validatons:	JobID:Required Skillname:Required
Constraints:	Id: Primary Key JobID: Foreign Key

Application:

Description:	In this module registerd company who posted job they See the apply candidate's in particular job. And admin can approve/reject resume of applied user.
I/O Events:	User applied with any job by sent resume.
O/P:	User can notify if their resume is satisfied with that job .

Validatons:	JobID:Required Username:Required
Constraints:	Username: Foreign Key JobID: Foreign Key

AptitudeTest:

Description:	In this module registerd company who posted job they manage the aptitude test and that is conduct offline and after that set result of user.
I/O Events:	Company manage the test for any job that was posted.
O/P:	User can notify if their resume is satisfied with that job and they need to apply that particular aptitude test.
Validatons:	JobID: Required Examname: Required ExamDetail: Required CutOff: Required
Constraints:	Id: Primary Key JobID: Foreign Key

AptitudeResult:

Description:	In this module registerd company who posted job 's test and if any user applied that job than result is added and notify that user via Email.
I/O Events:	User applied with Aptitude test and insert data about that test and marks.
O/P:	User will notify if he/she get more than marks of cutoff and also notify if get less marks.
Validatons:	AptitudeTestID:Required Username:Required

	Marks: Required isSelected: NULL
Constraints:	Username: Foreign Key
	AptitudeTestID: Primary Key

Telephonic Interview:

Description:	In this module registerd company can approve or reject user as per they marks get in aptitude test.
I/O Events:	User approve/Reject form aptitude test.
O/P:	User can notify if they got higher marks than they will go for further process .
Validatons:	JobID:Required Username:Required IsSelected: null
Constraints:	Username: Foreign Key JobID: Foreign Key

Personal Interview:

Description:	In this module registerd company can approve or reject user as per they give telephonic interview.
I/O Events:	User approve/Reject form telephonic.
O/P:	User can notify if they got satisfied interview than they will go for further process.
Validatons:	JobID:Required Username:Required IsSelected: null
Constraints:	Username: Foreign Key JobID: Foreign Key

Selected Candidate:

Description:	In this module registerd company can approve or reject user as per they give peronal interview.
I/O Events:	User approve/Reject form personal interview.
O/P:	User can notify if they got satisfied interview than they will go for further process . or offer for that job with specifc salary and designation.
Validatons:	JobID:Required Username:Required Salary: null Designation: null IsSelected: null
Constraints:	Username: Foreign Key JobID: Foreign Key

Role:

Description:	Define role of company and user
I/O Events:	A particular role will be able to access particular module according to given permission.
O/P:	None.
Validatons:	RoleId:Required Rolename:Required
Constraints:	RoleID: Primary Key

UserRole:

Description:	Assign role to particular user as registerd.
I/O Events:	A particular role will be able to access particular

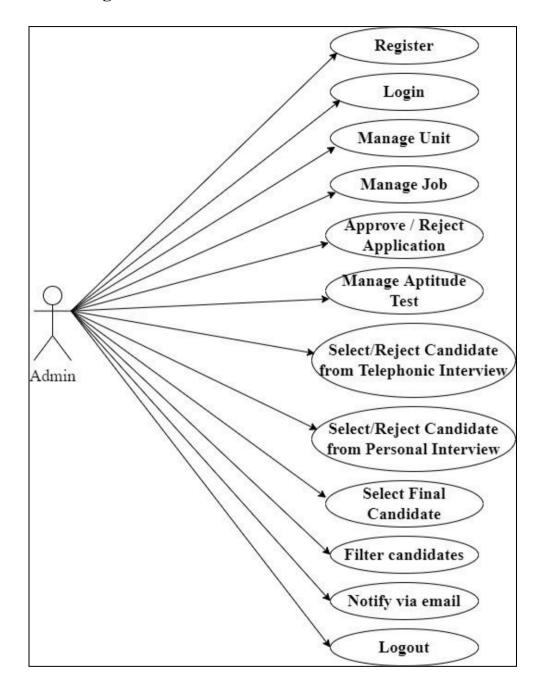
	module according to given permission.
O/P:	No one cane access any page without any having role.
Validatons:	JobID:Required Username:Required
Constraints:	Username: Foreign Key JobID: Foreign Key

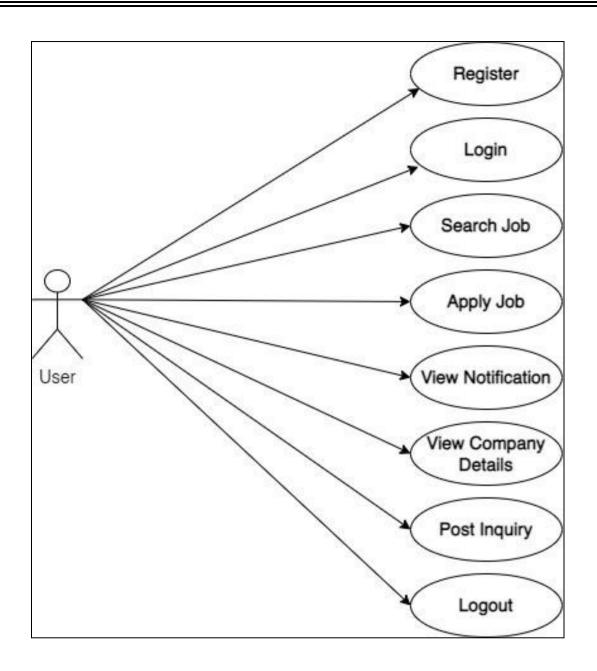
CompanyService:

Description:	In this module registerd company are add their services.
I/O Events:	Add services and update according
O/P:	User can notify if their resume is satisfied with that job .
Validatons:	CompanyUsername:Required ServiceTitle:Required Service Description:Required
Constraints:	Username: Foreign Key ID: Primary Key

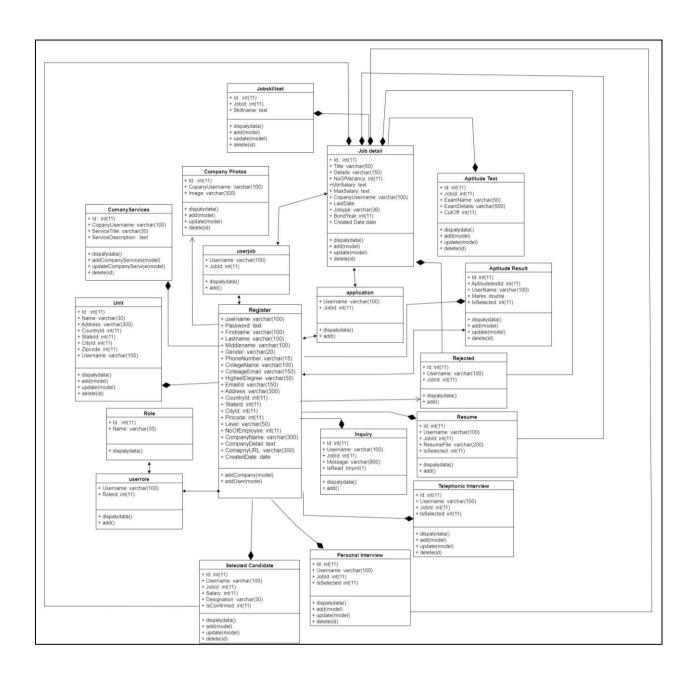
5.2 UML Diagram

5.2.1 Use Case Diagram

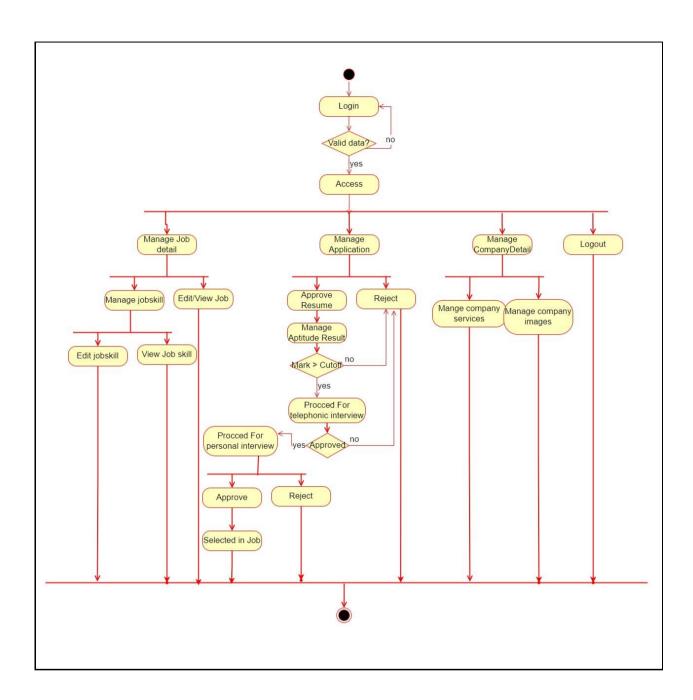




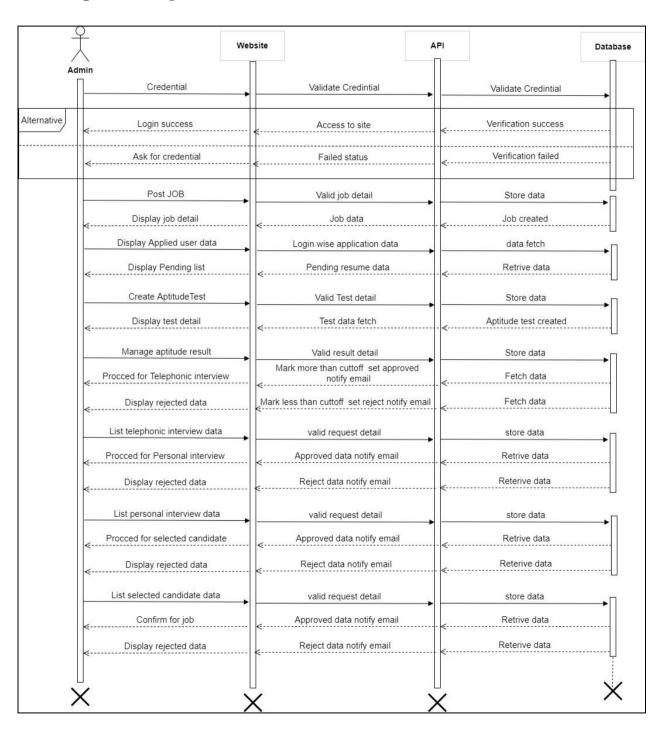
5.2.2 Class Diagram



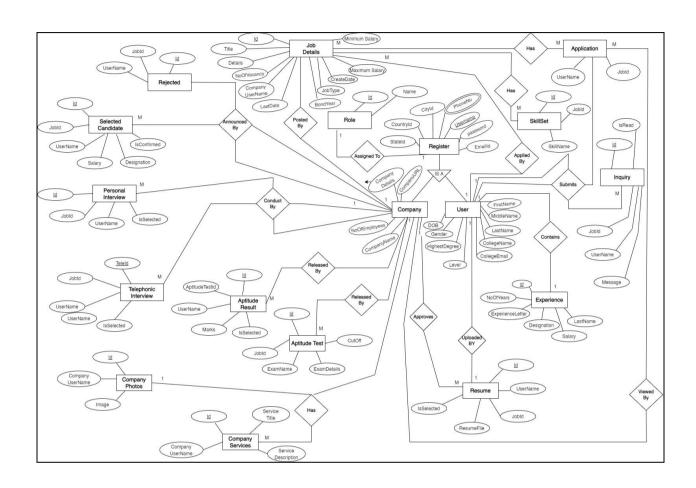
5.2.3 Activity Diagram



5.2.4 Sequence Diagram



5.3 E-R Diagram



6 Software Design

6.1 Database Design

Register[Company/User]:

#	Name	Туре	Collation	Attributes	Null	Default Comments
1	Username 🔑	varchar(100)	latin1_swedish_ci		No	None
2	Password	text	latin1_swedish_ci		No	None
3	Firstname	varchar(100)	latin1_swedish_ci		Yes	NULL
4	Middlename	varchar(100)	latin1_swedish_ci		Yes	NULL
5	Lastname	varchar(100)	latin1_swedish_ci		Yes	NULL
6	DOB	text	latin1_swedish_ci		Yes	NULL
7	Gender	varchar(20)	latin1_swedish_ci		Yes	NULL
8	PhoneNumber	varchar(15)	latin1_swedish_ci		No	None
9	CollegeName	varchar(100)	latin1_swedish_ci		Yes	NULL
10	CollegeEmail	varchar(150)	latin1_swedish_ci		Yes	NULL
11	HighestDegree	varchar(50)	latin1_swedish_ci		Yes	NULL
12	Emailld	varchar(150)	latin1_swedish_ci		No	None
13	Address	varchar(300)	latin1_swedish_ci		Yes	NULL
14	Countryld 🔑	int(11)			Yes	NULL
15	StateId 🔊	int(11)			Yes	NULL
16	Cityld 🔊	int(11)			Yes	NULL
17	Pincode	int(11)			No	None
18	Level	varchar(50)	latin1_swedish_ci		Yes	NULL
19	NoOfEmployee	int(11)			Yes	NULL
20	CompanyName	varchar(300)	latin1_swedish_ci		Yes	NULL
21	CompanyDetail	text	latin1_swedish_ci		Yes	NULL
22	CompanyURL	varchar(300)	latin1_swedish_ci		Yes	NULL
23	CreatedDate	date			Yes	NULL

Role:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Name	varchar(30)	latin1_swedish_ci		No	None		

UserRole:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	UserName 🔊	varchar(100)	latin1_swedish_ci		No	None		
2	Roleld 🔊	int(11)			No	None		

CompanyPhotos:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	CompanyUserName 🔎	varchar(100)	latin1_swedish_ci		No	None		
3	Image	varchar(300)	latin1_swedish_ci		No	None		

CompanyServices:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	CompanyUserName 🔊	varchar(100)	latin1_swedish_ci		No	None		
3	ServiceTitle	varchar(30)	latin1_swedish_ci		No	None		
4	ServiceDescription	text	latin1_swedish_ci		No	None		

Unit:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Name	varchar(30)	latin1_swedish_ci		No	None		
3	Address	varchar(300)	latin1_swedish_ci		No	None		
4	Countryld 🔊	int(11)			No	None		
5	StateId 🔊	int(11)			No	None		
6	Cityld 🔊	int(11)			No	None		
7	ZipCode	int(11)			No	None		
8	Username 🔊	varchar(100)	latin1_swedish_ci		No	None		

Jobdetails:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	
1	ld 🔑	int(11)			No	None		AUTO_	INCREMENT
2	Title	varchar(50)	latin1_swedish_ci		No	None			
3	Details	varchar(150)	latin1_swedish_ci		No	None			
4	NoOfVacancy	int(11)			No	None			
5	MinSalary	text	latin1_swedish_ci		No	None			
6	MaxSalary	text	latin1_swedish_ci		No	None			
7	CompanyUserName 🔊	varchar(100)	latin1_swedish_ci		No	None			
8	LastDate	text	latin1_swedish_ci		Yes	NULL			
9	JobType	varchar(36)	latin1_swedish_ci		No	None			
10	BondYear	int(11)			No	None			
11	CreatedDate	date			Yes	NULL			

userjob:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	UserName 🔎	varchar(100)	latin1_swedish_ci		No	None		
2	Jobld 🔊	int(11)			No	None		

jobskillset:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	
1	ld 🔑	int(11)			No	None		AUTO_	INCREMENT
2	Jobld 🔊	int(11)			No	None			
3	Skillname	text	latin1_swedish_ci		No	None			

application:

1	#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
	1	UserName 🔊	varchar(100)	latin1_swedish_ci		No	None		
4	2	Jobld 🔊	int(11)			No	None		

resume:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Username 🔑	varchar(100)	latin1_swedish_d	i	No	None		
3	Jobld 🔊	int(11)			No	None		
4	ResumeFile	varchar(200)	latin1_swedish_d	i	No	None		
5	IsSelected	int(11)			Yes	NULL	0 -> false, 1->true, 2->null	

aptitudeTest:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Jobld 🔎	int(11)			No	None		
3	ExamName	varchar(50)	latin1_swedish_ci		No	None		
4	ExamDetails	varchar(500)	latin1_swedish_ci		No	None		
5	CutOff	int(11)			No	None		

aptitudeResult:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	AptitudeTestId \gg	int(11)			No	None		
3	Username 🔎	varchar(100)	latin1_swedish_ci		No	None		
4	Marks	double			No	None		
5	IsSelected	int(11)			Yes	NULL	0 -> false, 1->true, 2->null	

telephonicInterview:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	Teleld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Jobld 🔑	int(11)			No	None		
3	Username 🔊	varchar(100)	latin1_swedish_ci		No	None		
4	IsSelected	int(11)			Yes	NULL	0 -> false, 1->true, 2->null	

personalInterview:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Jobld 🔎	int(11)			No	None		
3	Username 🔊	varchar(100)	latin1_swedish_ci		No	None		
4	IsSelected	int(11)			Yes	NULL	0 -> false, 1->true, 2->null	

selectedCandidates:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Jobld 🔑	int(11)			No	None		
3	Username 🔊	varchar(100)	latin1_swedish_ci		No	None		
4	Salary	int(11)			Yes	NULL		
5	Designation	varchar(30)	latin1_swedish_ci		Yes	NULL		
6	IsConfirmed	int(11)			Yes	NULL	0 -> false, 1->true, 2->nul	I

Rejected:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	
1	ld 🔑	int(11)			No	None		AUTO_	INCREMENT
2	Jobld 🔎	int(11)			No	None			
3	Username 🔊	varchar(100)	latin1_swedish_ci		No	None			

Inquiry:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Jobld 🔑	int(11)			No	None		
3	UserName 🔎	varchar(100)	latin1_swedish_ci		No	None		
4	Message	varchar(800)	latin1_swedish_ci		No	None		
5	IsRead	tinyint(1)			No	None		

Country:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Name	varchar(130)	latin1_swedish_ci		No	None		

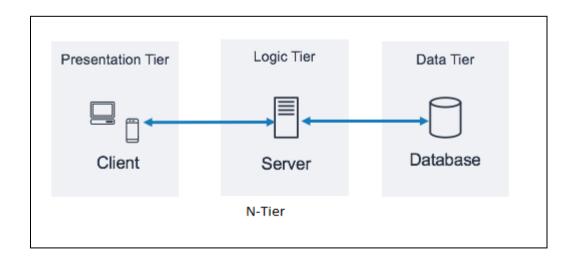
State:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Countryld 🔊	int(11)			No	None		
3	Name	varchar(130)	latin1_swedish_ci		No	None		

City:

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	ld 🔑	int(11)			No	None		AUTO_INCREMENT
2	Countryld 🔊	int(11)			No	None		
3	Stateld 🔊	int(11)			No	None		
4	Name	varchar(130)	latin1_swedish_ci		No	None		

6.2 Architecture Design



7 Testing

7.1 Unit Testing

This testing focuses on verification effort on the smallest unit of software design - the component or module. Using the component-level design description as a guide, important control paths are tested to uncover errors within the boundary of the module. The relative complexity of tests and the error those tests uncover is limited by constrained scope established for the unit testing. The unit testing focuses on internal processing logic and data structure with boundaries of the component. This type of testing can be conducted in parallel for multiple components.

LOGIN

No.	Description	Inputted V	alues	Expected	Actual	Pass /
		Email ID	Password	Result	Result	Fail
1.	Check for login	admin@gmail.co	Adm@in1	Redirect to	Redirect to	Pass
	validation	<u>m</u>	23	Dashboard	Dashboard	
2.	Check for login	admin@gmail.co	null	Error:Please	Error:Please	Pass
	validation	<u>m</u>		enter fields	enter fields	
3.	Check for login	null	null	Error:Please	Error:Please	Pass
	validation			enter fields	enter fields	
4.	Check for login	admin@gmail.co	admin12	Error:Please	Error:Please	Pass
	validation	<u>m</u>		enter small	enter small	
				charters &	charters &	
				any Special	any Special	
				character	character	

CHANGE PASSWORD

No.	Description	Ir	putted Valu	es	Expected	Actual	Pass /
		Old	New	Confirm	Result	Result	Fail
		Password	Password	Password			
1.	Check for Change	Adm@in1	Adm@in1	Adm@in1	Redirect to	Redirect to	Pass
	password	23	234	234	home page	home page	
	validation						
2.	Check for Change	admin123	admin	null	Error:Please	Error:Plea	Pass
	password				enter fields	se enter	
	validation					fields	
3.	Check for Change	null	Null	null	Error:Please	Error:Plea	Pass
	password				enter fields	se enter	
	validation					fields	

FORGOT PASSWORD

No.	Description	Inputted Values	Expected	Actual	Pass /
			Result	Result	Fail

1.	Check for email	admin@gmail.com	if email is	if email is	Pass
	validation		valid then	valid then	
			user get	user get	
			email & then	email &	
			can reset	then can	
			password	reset	
				password	
2.	Check for email	admin@gmail.com	if email is	if email is	Pass
	validation		invalid then	invalid then	
			user not can	user not can	
			reset	reset	
			password	password	

ADD JOB DETAIL:

No.	Description	Inputted	Expected	Actual	Pass / Fail
		Values	Result	Result	
1.	Add new Job	Enter Job	Redirect to	Redirect to	Pass
	details	detail with	List Job	List Job	
		proper login	detail page	detail page	
		and click add			
2.	Check add	Click on add	Enter	Enter	Pass
	Job details	button	Required	Required	
		without	field	field	
		filling form			

ADD APPLICATION:

No.	Description	Inputted	Expected	Actual	Pass / Fail
		Values	Result	Result	
1.	User Apply particular / interested Job with upload resume		Send to particular job's company	Send to particular job's company	Pass
2.	Check add	Click on	Show	Show	Pass
2.	user applied that job preivously?	apply button	message you are already applied	message you are already applied	1 435

ADD APTITUDE RESULT:

No.	Description	Inputted	Expected	Actual	Pass / Fail
		Values	Result	Result	
1.	Admin add	Enter test	Redirect to	Redirect to	Pass
	aptitude test	detail with	List Test	List Test	
		proper login	detail page	detail page	
		and click add			
2.	User applied	Enter result	If users	If users	Pass

aptitude test	data of user	marks is	marks is	
accordingly	in aptitude	greater than	greater than	
insert result	result table	cutoff they	cutoff they	
	with proper	will notify	will notify	
	login	via email	via email	
	credential			

7.2 Integration Testing

Integration testing is a systematic technique for constructing the software architecture while at the same time conducting tests to uncover errors associated with interfacing. The objective is to take unit tested components and build a program structure that has been dictated by design.

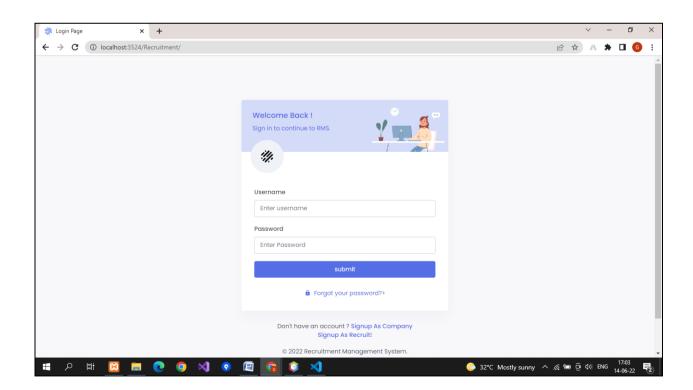
• Top-down Integration :

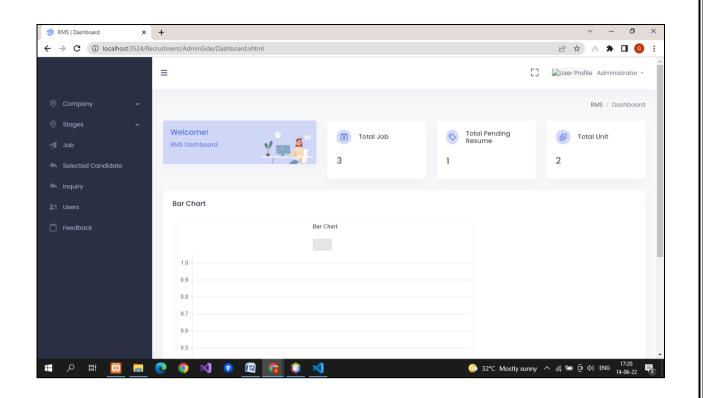
It is an incremental approach to construction of the software architecture. Modules are integrated by moving downward through the control hierarchy, beginning with the main control module.

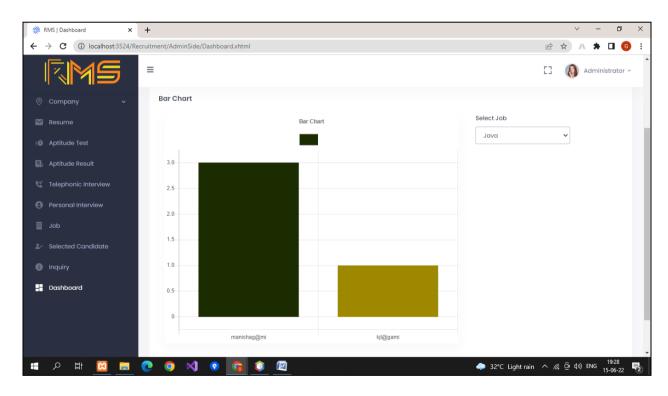
• Bottom-up Integration;

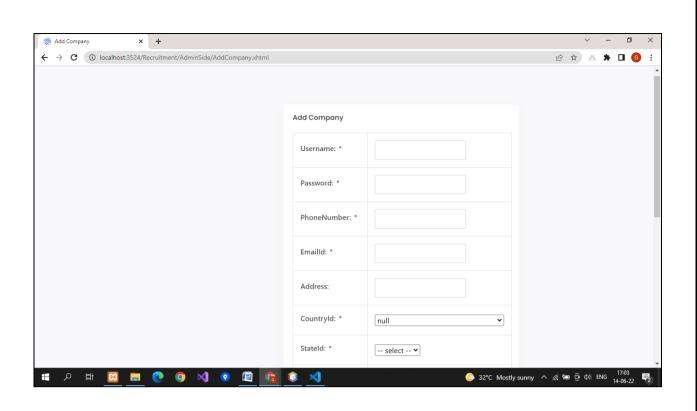
It begins construction and testing with atomic modules. Because components are integrated from the bottom up, processing required for components subordinate to a given level is always available and the need for stubs is eliminated.

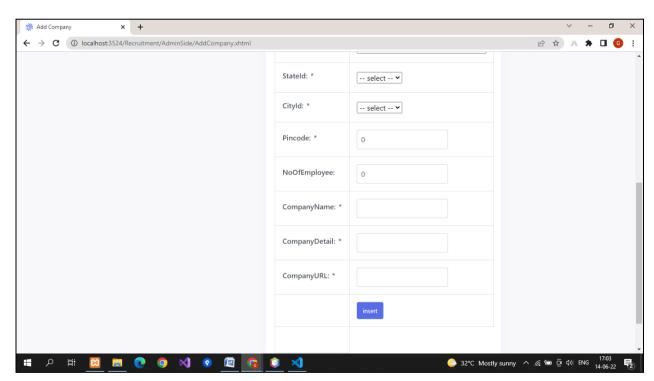
8 Interface Design sitemap followed with page snapshots

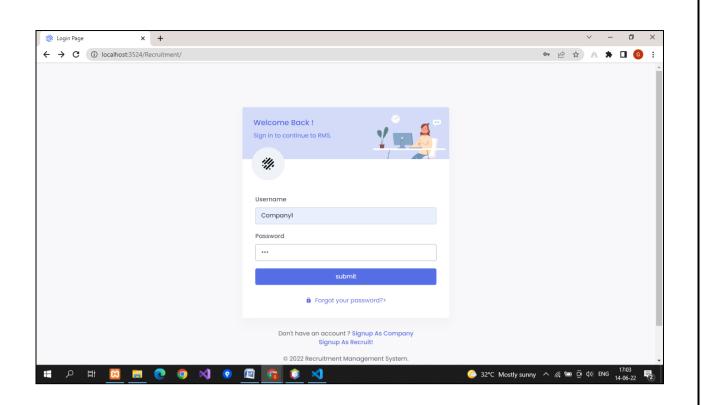


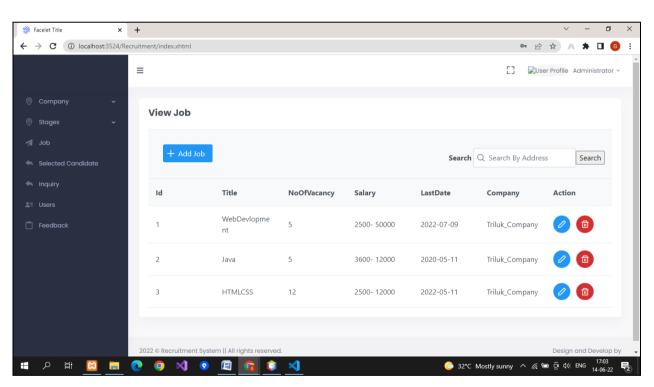


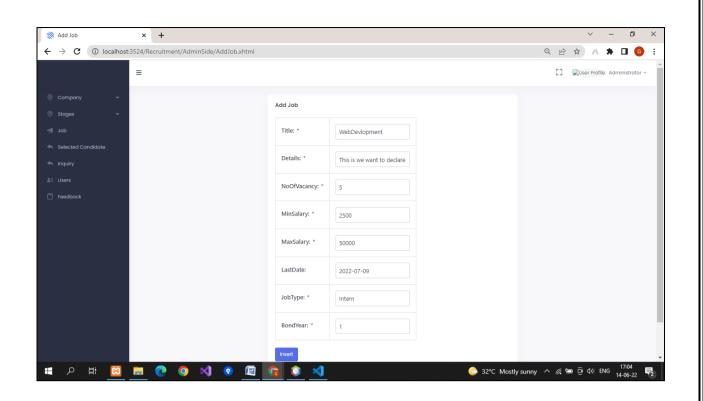


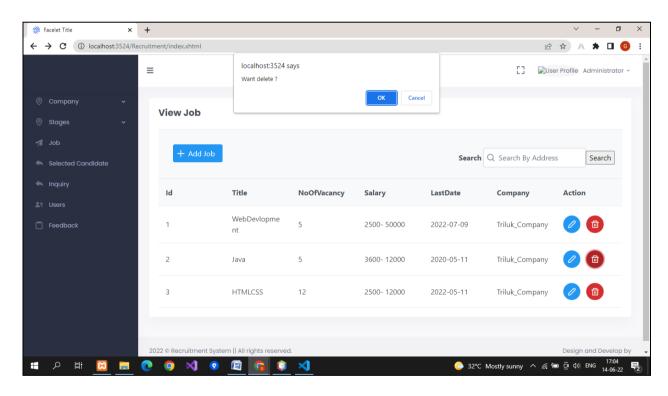


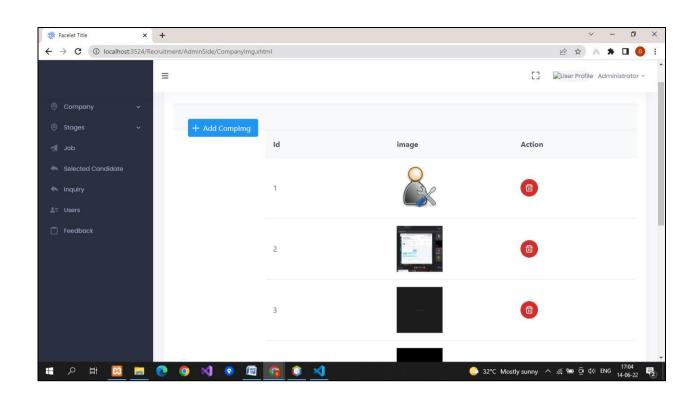


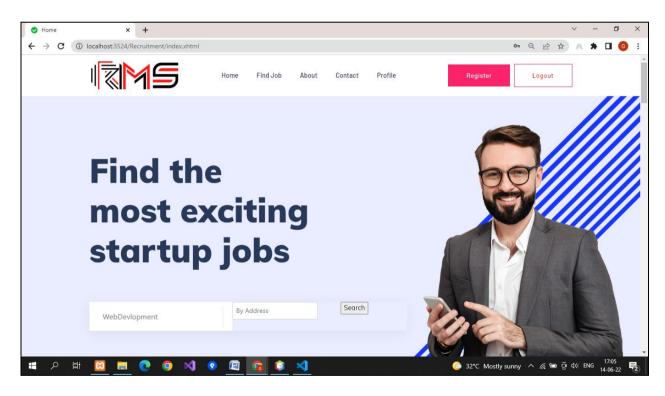


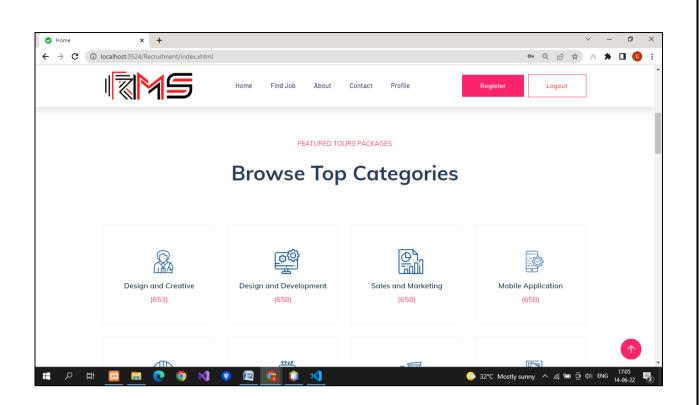


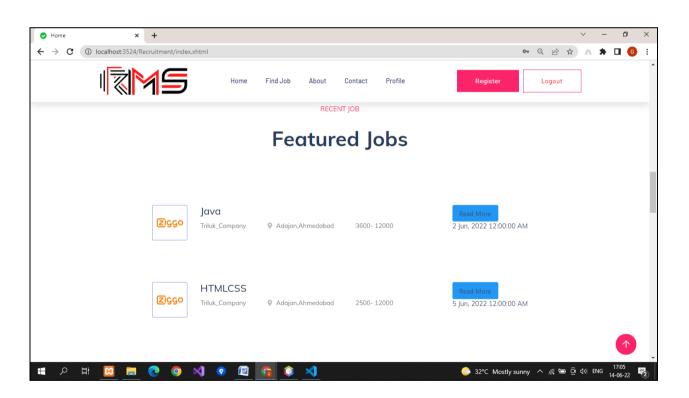


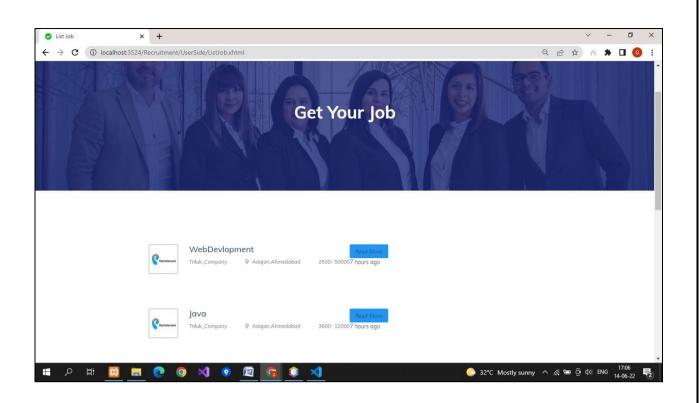


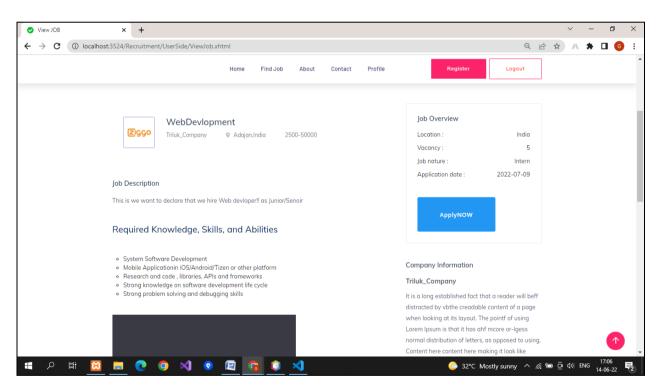


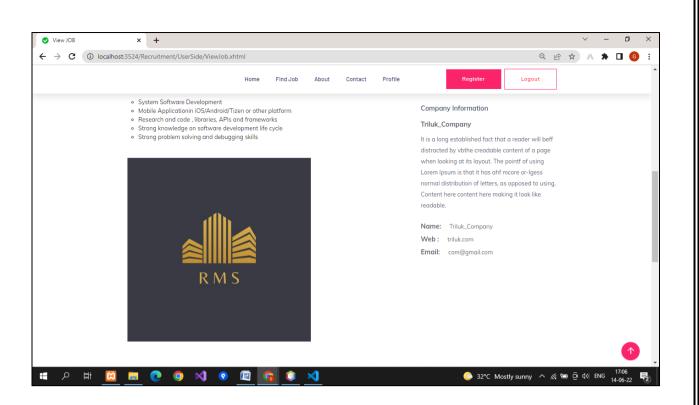


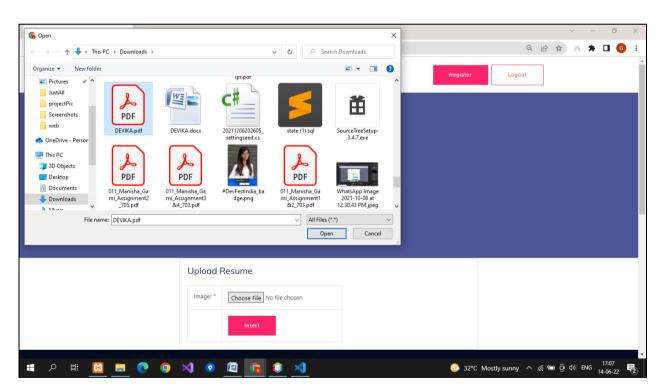


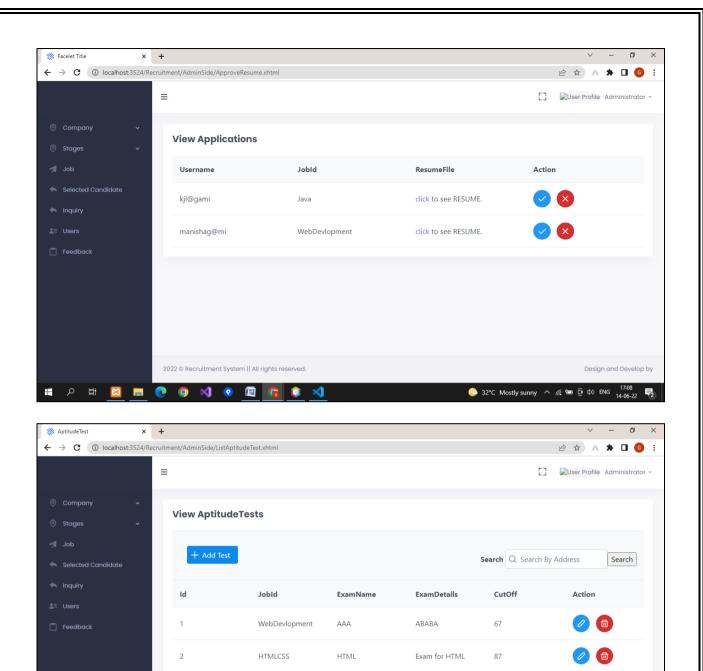










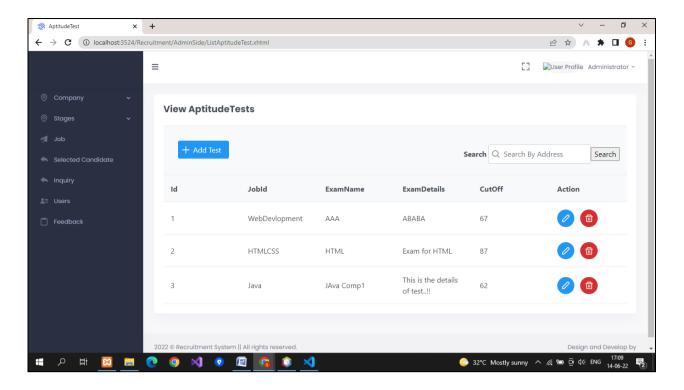


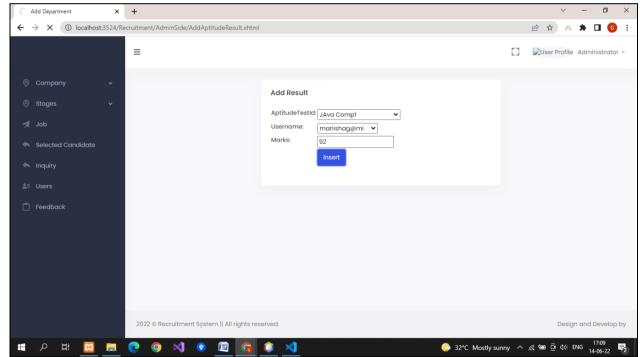
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Design and Develop by

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9 Future Enhancement

- Company and candidate can chat over the system itself.
- Different Companies can decide the order of hiring candidate by themselves.
- If the no of active user increases it can be shifted to cloud
- Company can conduct aptitude test online by their customised questions

10 Reference

- https://docs.oracle.com/javaee
- https://www.primefaces.org/
- ➡ https://stackoverflow.com/
- https://jwt.io/introduction