# PLACE WITH EASE

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#### 1. Objective (Problem Statement)

The purpose of PlaceWith Ease is to provide a website for an institution where the seniors can share their strategy for preparations, study materials, relevant resources, experience of interviews/online test of various companies for placements and answer to queries of juniors. With this project it is intended to make a platform where seniors can help juniors for preparation for placements and strategies to study for semesters in general.

Students face difficulty in preparations especially for interviews/ online tests for companies during placements. When it comes to preparation, the best people who can help are seniors but interaction between junior and seniors is not an easy task especially when online. There are various platforms where interaction can take place but they are not especially designed for this purpose but what if there is a platform exclusively designed for this purpose? Things would be much easier and efficient. So this is a web based application exclusively designed for the interaction between senior and juniors of the particular institution.

#### 2. Requirement Analysis (SRS)

#### 2.1. Hardware and Software Requirements

#### 2.1.1. Hardware Interfaces

- Processor Core i3/i5 or ryzen 3/5
- Hard Disk Drive 500 GB
- RAM 4 GB

#### 2.1.2. Software Interfaces

• Following are the softwares used:

Software used	Description
Operating System	Windows operating system because it has the best support and user friendliness. Minimum Windows 7

	required.
Database	To save all the records - MySQL
Frontend	HTML, CSS, Javascript along with Bootstrap framework and jquery
Backend	РНР

#### 2.2. Feasibility Study

<u>Technical Feasibility</u>- The website is technically feasible since it is built upon various lucid technologies like HTML, CSS, Javascript, PHP which are very popular and understandable among developers today. The website has been developed to be fully functional within 5 months and incorporates all the features which it claims to provide to its users.

Market/User Feasibility- Simple and understandable UI (User Interface) designs makes it highly feasible for the potential users (students) to get familiar with the application. Also, a platform such as this, will have a high market feasibility in the current scenario of online studies where students lack proper guidance because of little or no interaction with the seniors (who can provide the best guidance when it comes to placements) and the sole purpose of PlaceWithEase is to bridge the communication gap between the seniors and juniors.

## 2.3. Product Functions

# A. Registration

Purpose	This feature involves filling a registration form which includes the user's First name, Last name, email id(provided by university), branch name, graduation year, through which a user will enroll in our website.
Pre-conditions	<ol> <li>Website is available.</li> <li>Database is available</li> <li>Internet is available</li> </ol>
Post-conditions	<ol> <li>Personal details are entered into the user database table.</li> <li>New user is created.</li> <li>Message is sent back to the screen stating a new user has been created.</li> <li>User redirected to login page</li> </ol>
Basic flow	<ol> <li>Access URL</li> <li>User selects user type(senior/junior)</li> <li>Select Register link</li> <li>Enter user details</li> <li>User enter OTP</li> <li>The system authenticates the OTP</li> <li>User redirected to the login page after successful registration.</li> </ol>

Alternative-flow	<ol> <li>If an existing user exists then a "User already exists" message is displayed.</li> <li>If information is missing, an "Insufficient Information" message is displayed.</li> <li>User enters invalid OTP, "invalid OTP message displayed".</li> </ol>
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# B. Login

Purpose	This feature enables the user to operate their account on Place With Ease website This provides security to the system by authenticating each member and provides confidence to the consumer that his/her personal information is secure.
Pre-conditions	Internet ,website and database is available The user has an account The user is trying to log in with their account and correct credentials The user is not already logged in
Post-conditions	<ol> <li>The user is logged in to the system</li> <li>The user has access to the functions of the system</li> </ol>

Basic flow	<ol> <li>User accesses the URL.</li> <li>The system prompts the user for their account credentials.</li> <li>The user enters their username and password.</li> <li>The system authenticates the login</li> <li>The user gains access to the systems functionality and redirected to profile page</li> </ol>
Alternative-flow	Invalid account user or password User already logged in

# C. Sharing

Purpose	By accessing this feature, our seniors can share materials like – notes, pdfs, youtube videos, links, preparation tips, online test/interview experience etc.
Pre-Condition	Senior is logged in; file exists on user's device from which he/she is accessing the account
Post-Condition	Junior to whom the content is made available is able to download it.

Basic Flow	1. Senior log-in their account and then uploads a
	file to be shared using the upload option
	2. Then selects the category (interview experience
	, notes , preparation tips) under which he wants
	to upload
	3. The file then gets uploaded on our database
	and desired users are able to view and
	download it after logging in

# **D.**Searching

Purpose	<ol> <li>This feature helps to search, a senior with a particular course or branch , resources regarding a certain course, branch , interview experience regarding certain company and preparation tips etc by making use of keywords like(branch name, company name).</li> <li>This function gives the user filtered results in less time.</li> </ol>
Pre-Condition	Junior is logged-in their account
Post-Condition	Search results

Basic Flow	1. Junior is logged-in
	2. Enters the keyword like course/branch name, Company name in the search box of specific categories
	3. Click the search button and get the search results.

# E. Spam-Check

Purpose	This feature is useful in removing all such content posted by the seniors that might be irrelevant for the website. This will help in maintaining the website spam-free.
Pre-conditions	<ol> <li>The user is logged in.</li> <li>The junior reports the content as 'spam' when he/she comes across any such content which is not suitable for PlaceWithEase.</li> </ol>
Post-conditions	The admin deletes those content which are reported as spam by the juniors and the content gets permanently deleted from the website.

Basic Flow	<ol> <li>Junior logs in.</li> <li>Junior comes across any content which is irrelevant for PlaceWithEase.</li> <li>Junior reports this content as 'spam'.</li> <li>As soon as the no. of spam reports for a particular content becomes greater than 5, the admin gets notified about the presence of spam data in the website.</li> <li>Admin logs in.</li> <li>Admin reviews the spam content and deletes it permanently, if necessary.</li> </ol>				
Alternative Flow	If the admin feels that the content is falsely reported a spam and is actually helpful for the students, he/she will not delete it and remove all the spam reports of that content.				

# F. Q/A Section

Purpose	This feature enables the juniors to view or post their questions which can be answered by their seniors.				
Pre-conditions	<ol> <li>The user is logged in</li> <li>The questioner should be a JUNIOR</li> <li>The answerer should be a SENIOR</li> </ol>				

	IU
Post-conditions	Case 1: ASK QUESTION- The question is posted on the website for other juniors to see and seniors to answer.  Case 2: ANSWER QUESTION- The answer to the question is posted for other users to view.
Basic Flow	<ul> <li>Case 1: ASK QUESTION-</li> <li>a. Junior logs in.</li> <li>b. Junior types the question he/she intends to ask.</li> <li>c. After submission, this question is then stored in the database and is made available for juniors to view and seniors to respond.</li> </ul>
	<ul> <li>Case 2: ANSWER QUESTION-</li> <li>a. Senior logs in</li> <li>b. Senior looks for unanswered questions.</li> <li>c. On finding one, he/she submits the response to the question which can be viewed by other users of the website.</li> </ul>

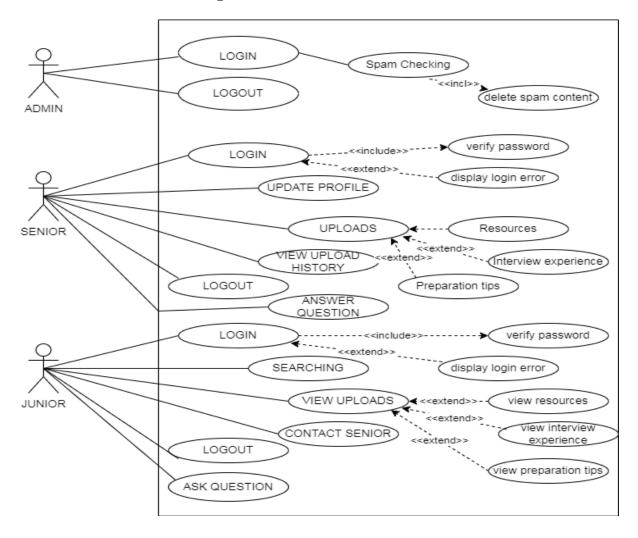
# G. Logout

Purpose	The Logout section provides a way for the user to
	securely log out of the system when they are done with
	accessing their account.

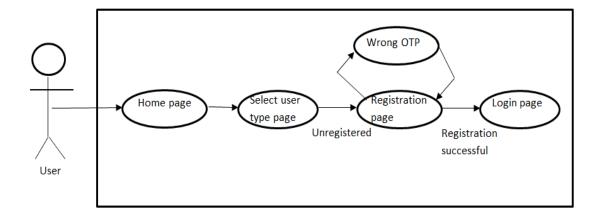
Pre-conditions	<ol> <li>The Internet and website is available.</li> <li>The user is logged in.</li> <li>The user no longer wants to be logged in.</li> </ol>
Post-conditions	<ol> <li>The user is logged out.</li> <li>The user is redirected to the home page.</li> </ol>
Basic-flow	<ol> <li>User is done using the website.</li> <li>User clicks on my profile.</li> <li>The user clicks on the logout option.</li> <li>The system logs the user out and</li> <li>invalidates the cookie/session.</li> <li>The system redirects to the Home page.</li> </ol>
Alternative-flow	NA

# 2.4. Use-case Diagrams

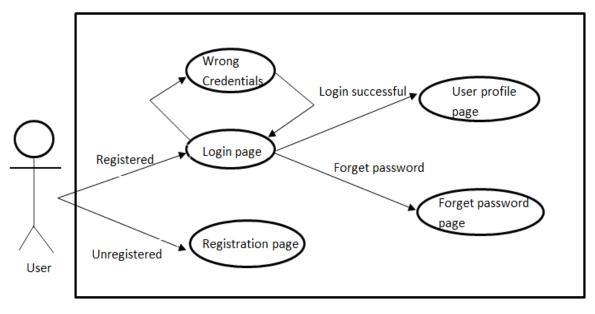
#### A. Use - Case diagram for Product Features.



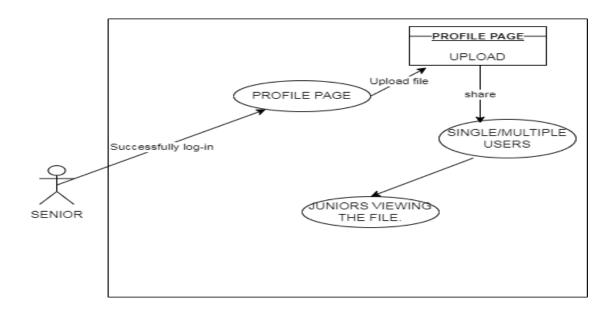
## **B.** Registration



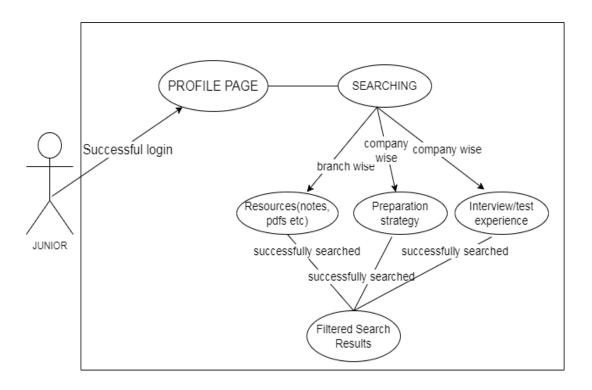
# C. Login



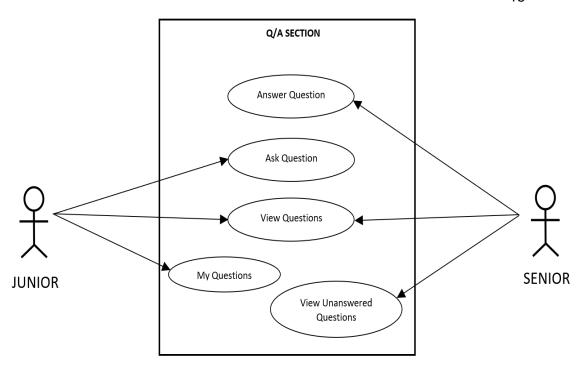
# D. Sharing



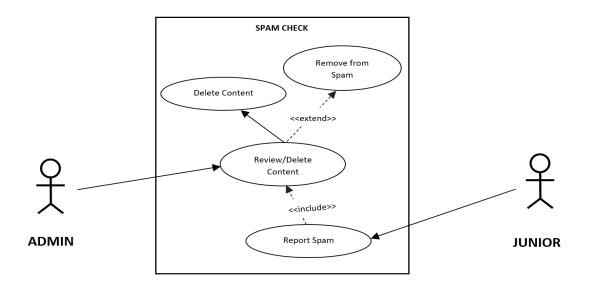
## E. Searching



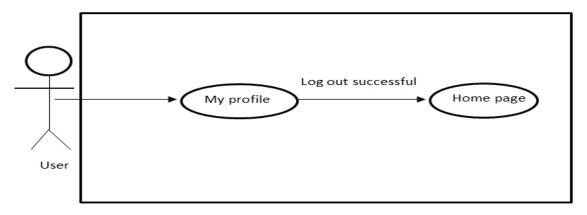
## F. Q/A Section



# G. Spam-Check



## H. Logout



#### 3. System Design (SDS)

#### 3.1. Class Diagram

The following class diagram models the static view of the system.

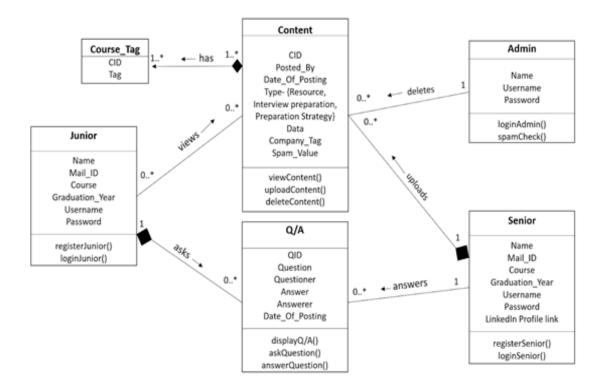


FIG. 3.1 class diagram

## 3.2. Database Design

## Junior Table-

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	sno 🔑	int(11)			No	None		AUTO_INCREMENT		Drop	<b>▼</b> More
2	email 🔑 🔑	varchar(45)	utf8mb4_general_ci		No	None			Change	Drop	▼ More
3	name	varchar(30)	utf8mb4_general_ci		No	None			<i>P</i> Change	Drop	<b>▼</b> More
4	grad_year	year(4)			No	None				Drop	<b>▼</b> More
5	course	varchar(15)	utf8mb4_general_ci		No	None				Drop	▼ More
6	password	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	<b>▼</b> More
7	time_of_register	datetime			No	current_timestamp()			Change	Drop	<b>▼</b> More

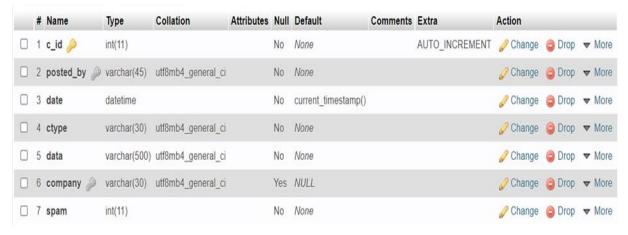
## **Senior Table-**

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	sno 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	▼ More
2	email 🔑 🔑	varchar(45)	utf8mb4_general_ci		No	None			Change	Drop	▼ More
3	name	varchar(30)	utf8mb4_general_ci		No	None			Change	Drop	▼ More
4	grad_year	year(4)			No	None			Change	Drop	▼ More
5	course	varchar(15)	utf8mb4_general_ci		No	None			Change	Drop	▼ More
6	password	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	▼ More
7	link	varchar(250)	utf8mb4_general_ci		No	None			Change	Drop	▼ More
8	time_to_register	datetime			No	current_timestamp	()		Change	Drop	▼ More

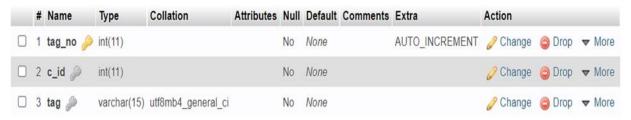
## **Admin Table-**

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	sno 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	<b>▼</b> More
2	email 🔑	varchar(45)	utf8mb4_general_ci		No	None			Change	Drop	<b>▼</b> More
3	name	varchar(30)	utf8mb4_general_ci		No	None			Change	Drop	<b>▼</b> More
4	password	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	<b>▼</b> More

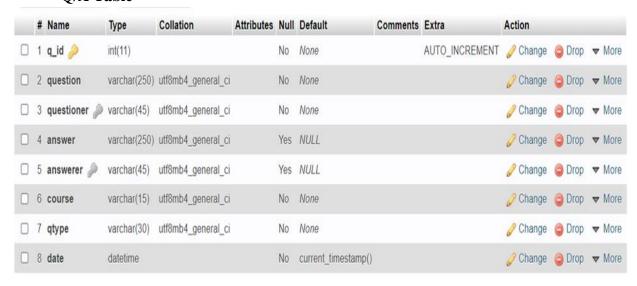
#### **Content Table-**



#### Course\_tag Table-



#### Q/A Table-



## 3.3. Activity Diagram

# A. Admin Component

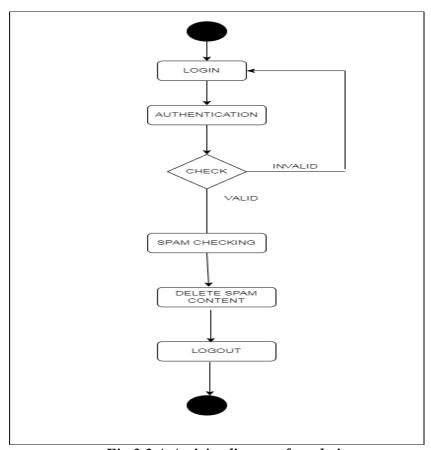


Fig 3.3.A Activity diagram for admin

# **B.** Senior Component

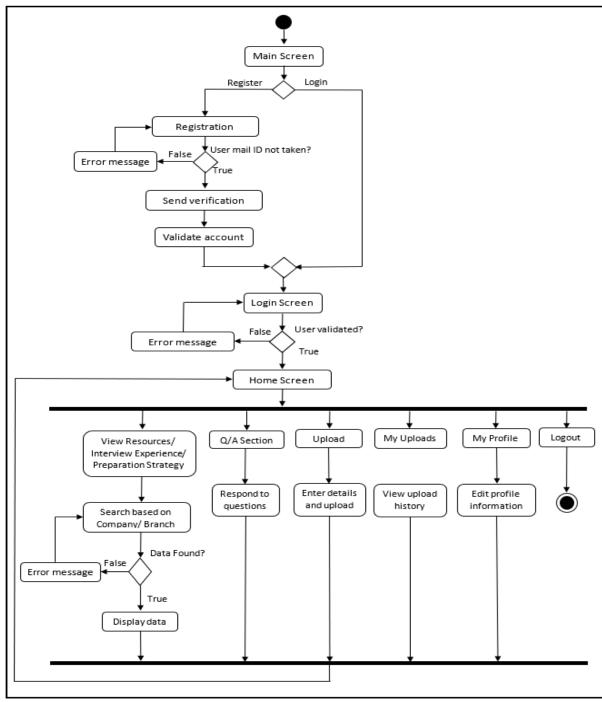


Fig 3.3.B. Activity diagram for seniors

#### C. Junior Component

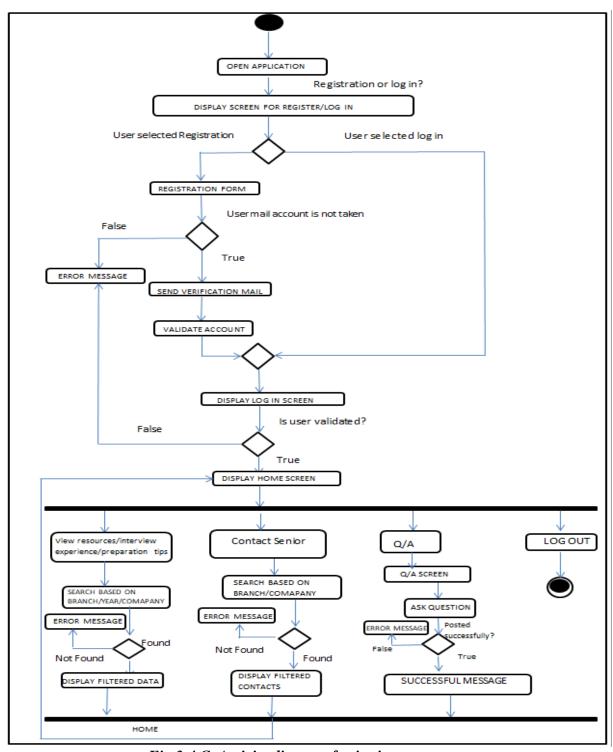


Fig 3.4.C. Activity diagram for junior

# 4. Testing

## 4.1. Test cases

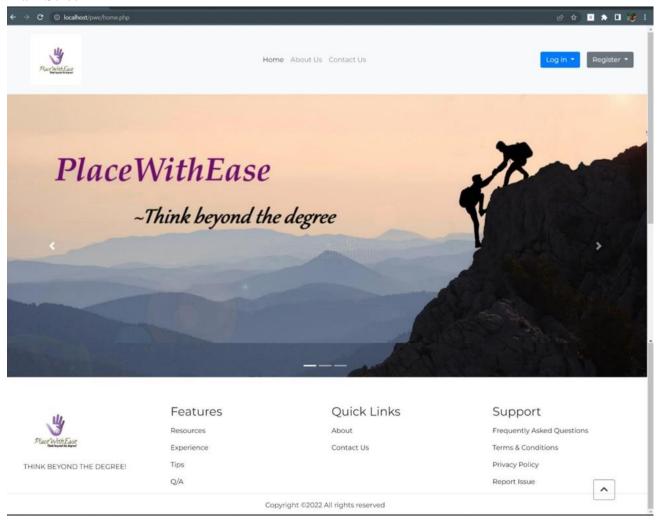
## **Test Case Table**

<u>Test</u> <u>Case</u> <u>ID</u>	<u>Test Case</u> <u>Objective</u>	<u>Prerequisite</u>	<u>Input</u>	Expected Input	<u>Status</u>
1	Register with the email provided by the institution	User is not already registered	user@gmail.com	Email with @banasthali.in domain	FAILED
			user@banasthali.i		PASSED
2	Register as senior	User is not already registered	Graduation Year=2023	User should be in final year or have already graduated	FAILED
			Graduation Year=2020		PASSED
3	Register as junior	User is not already registered	Graduation Year=2022	Graduation Year of junior should be > current Year	FAILED
			Graduation Year=2025		PASSED

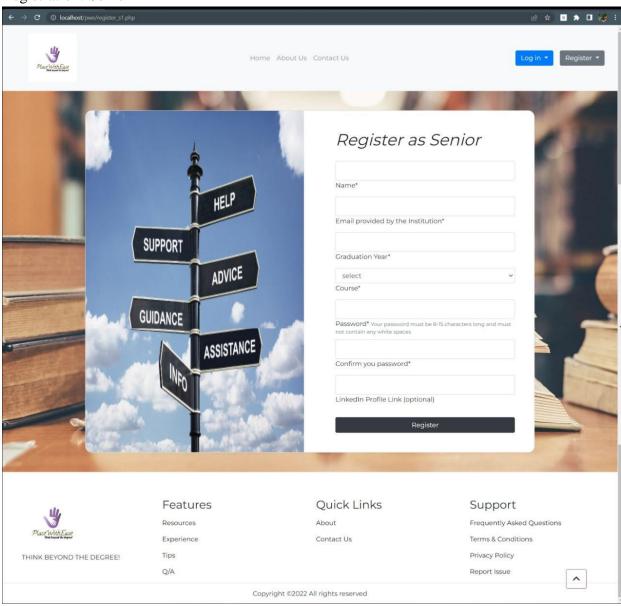
4	Validate account with the help of verification code	Email provided by the user is correct	Entered a different code	Verification code sent to the email	FAILED
			Entered the same code that was sent in the mail		PASSED
5	Login into the website	User is registered in the website	Wrong email address	Email address with which the user registered in the website	FAILED
			Entered correct email address, but wrong password	Password associated with the email address as entered at the time of registration	FAILED
			Entered correct email address and password		PASSED

#### 5. User Interfaces

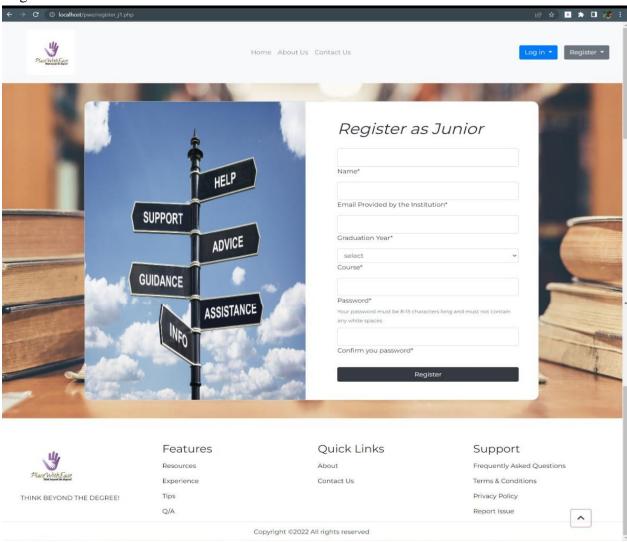
#### Main Screen



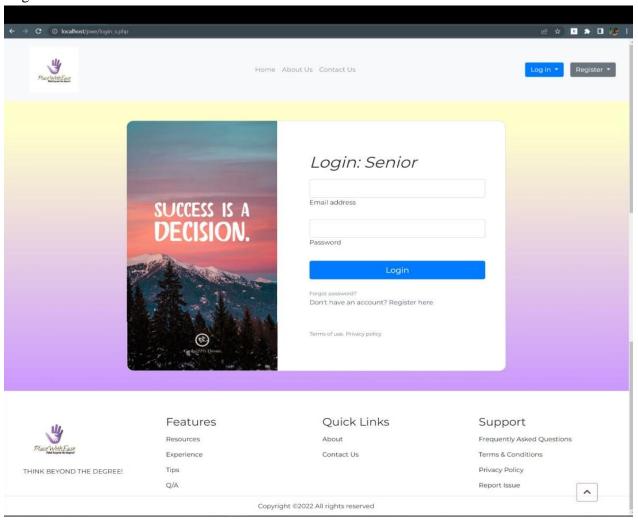
## Registration: Senior



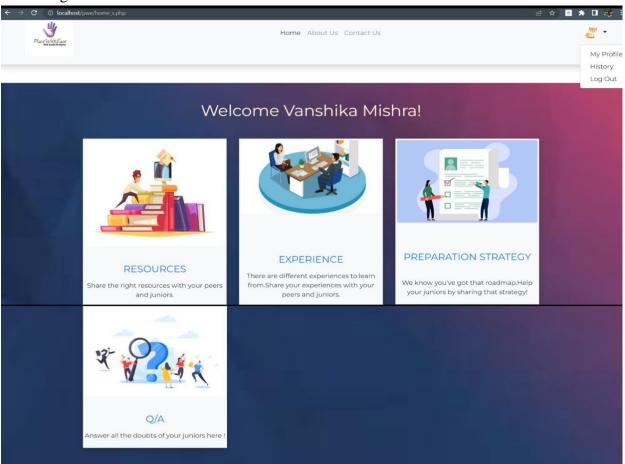
## Registration: Junior



Login: Senior



## Home Page: Senior





THINK BEYOND THE DEGREE!

Features

Resources

Experience

Preparation strategy

Q/A

Quick Links

About

Contact Us

Support

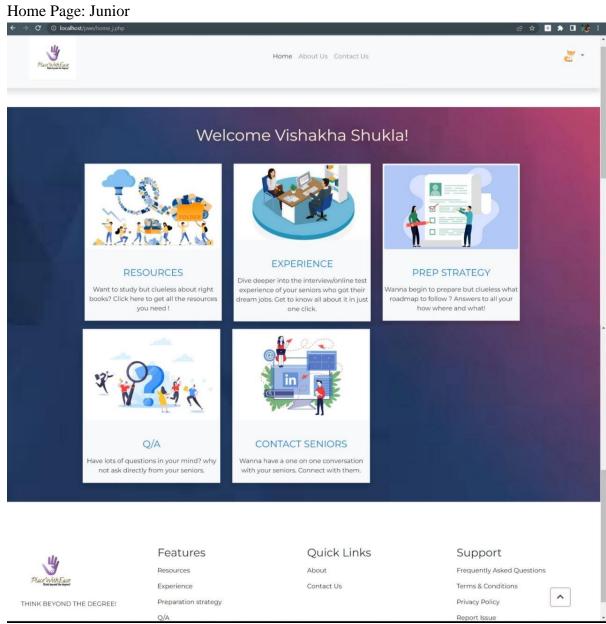
Frequently Asked Questions

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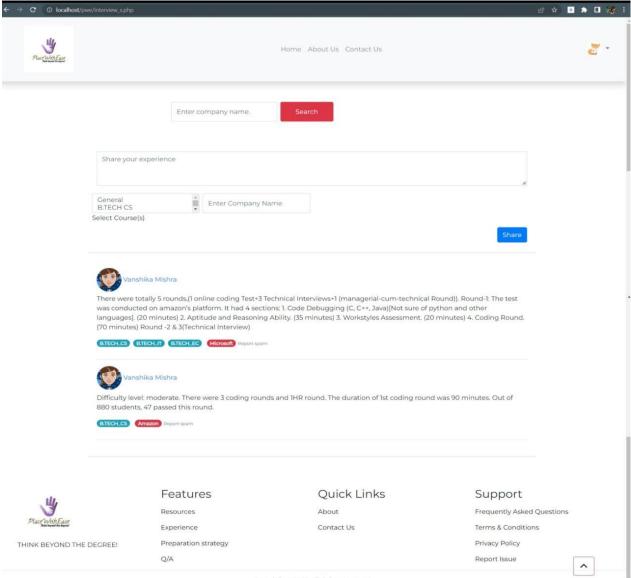
Terms & Conditions

Privacy Policy

Report Issue

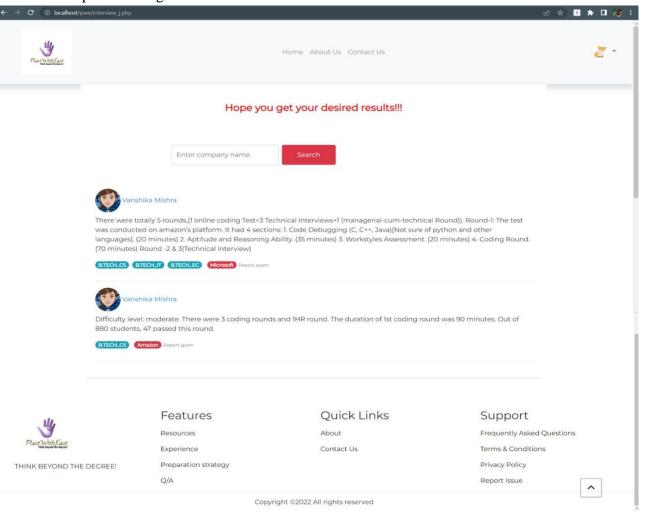


## Interview Experience Page: Senior

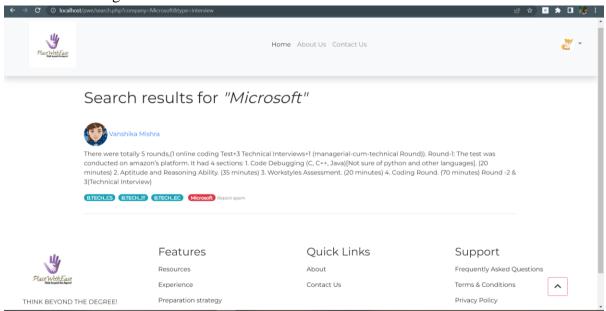


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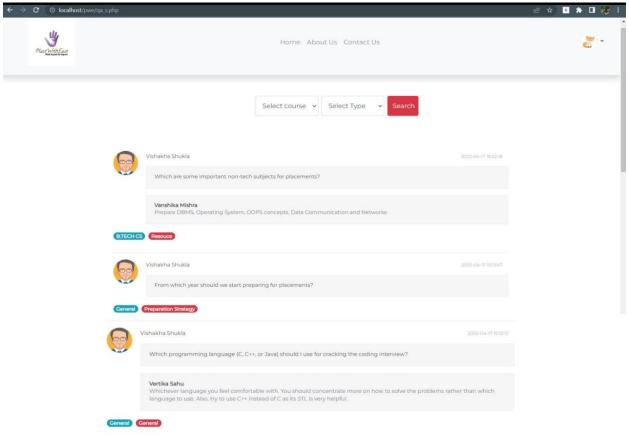
## Interview Experience Page: Junior



## Search Result Page



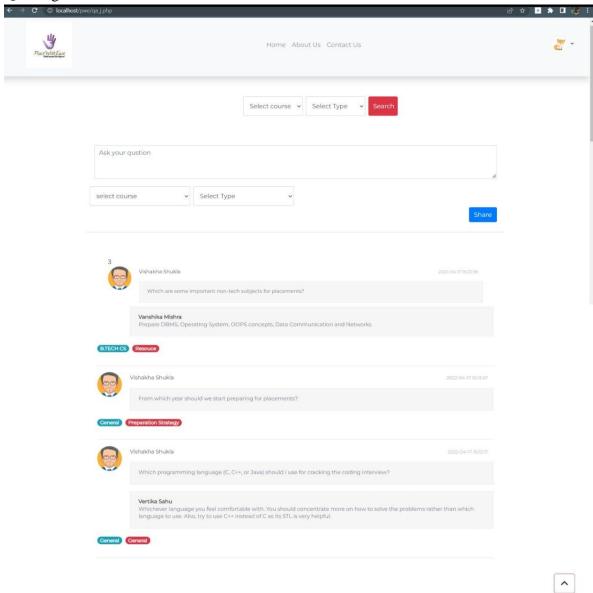
## Q/A Page



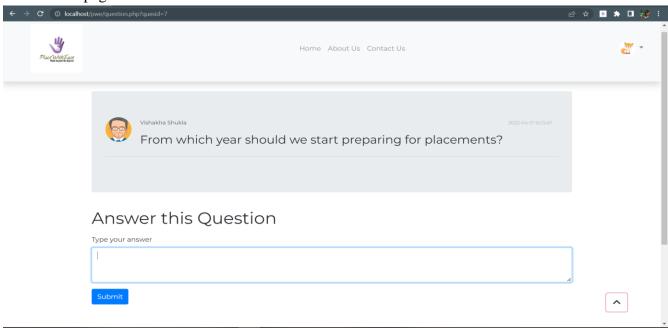


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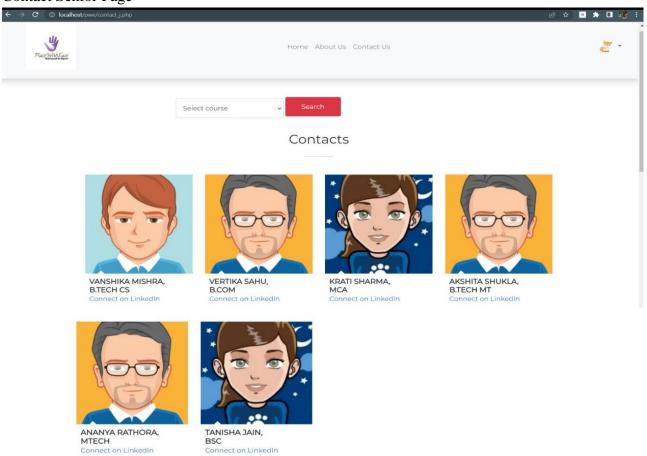
## Q/A Page Junior



## Add answer page: Seniors



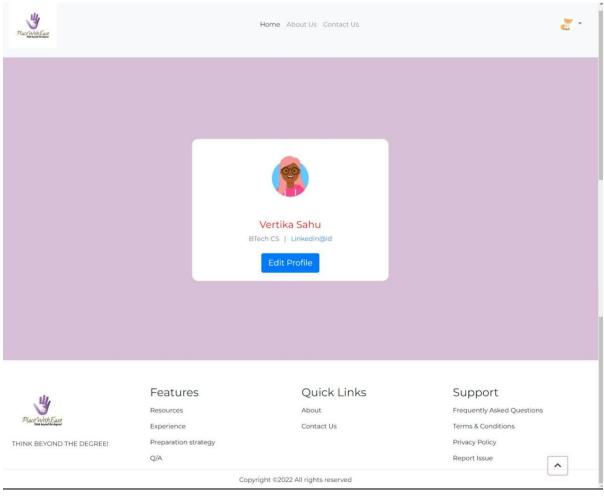
## Contact Senior Page



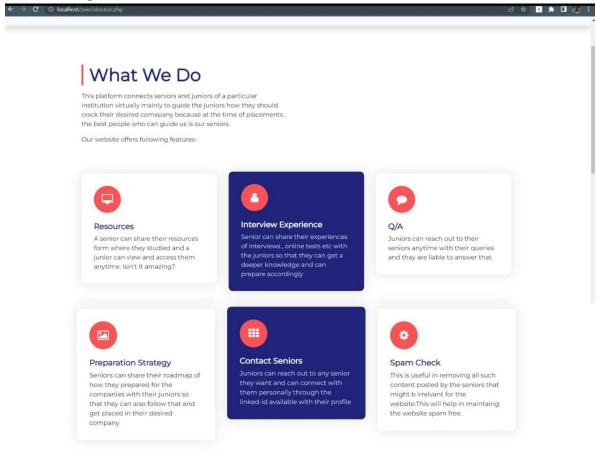


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# My Profile Page



#### About Us Page





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#### Features

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Experience

Preparation strategy

Q/A

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Frequently Asked Questions

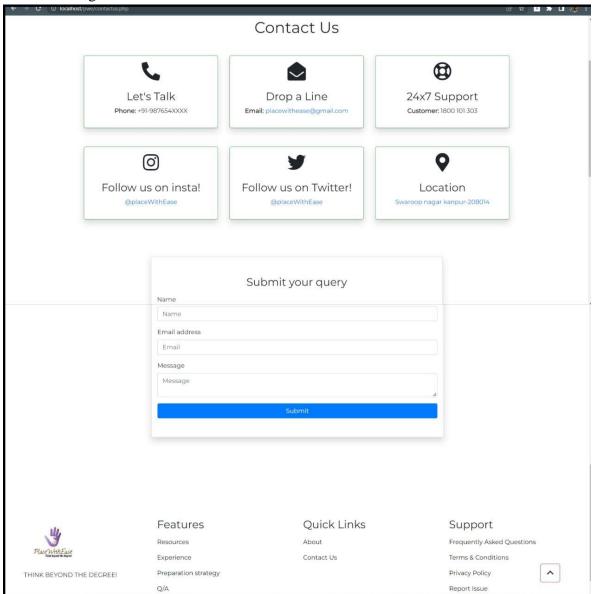
Terms & Conditions

Privacy Policy

Report Issue



## Contact Us Page



#### 6. Appendices

#### **Appendix A: Glossary**

- **Authentication-** The process of identifying an individual, usually based on username and password.
- Centralized Database- A centralized database is basically a type of database that is stored, located as well as maintained at a single location only. This type of database is modified and managed from that location itself.
- **Client/Server-** Client-server denotes a relationship between cooperating programs in an application, composed of clients initiating requests for services and servers providing that function or service.
- CSS- CSS is the language we use to style an HTML document.
- **Database-** Database is a structured collection of records or data that is stored in a computer system. In our system, this may pertain to resources shared or user information.
- **HTML-** HTML is the standard markup language for Web pages.
- https Hypertext Transfer Protocol (HTTP) is an application-layer protocol for transmitting hypermedia documents, such as HTML. It was designed for communication between web browsers and web servers, but it can also be used for other purposes
- **Operating System-**An operating system is a software programme required to manage and operate a computing device
- **Spam-** Unwanted content
- **SQL-SQL** (Structured Query Language) is a standardized programming language that's used to manage relational databases and perform various operations on the data in them.

#### 7. References

- <a href="https://www.studocu.com/row/document/iqra-university/bachelor-of-computer-science/srs-airline-management-system/8695767">https://www.studocu.com/row/document/iqra-university/bachelor-of-computer-science/srs-airline-management-system/8695767</a>
- <a href="https://dipeshagrawal.files.wordpress.com/2018/07/docuri-com">https://dipeshagrawal.files.wordpress.com/2018/07/docuri-com</a> online-project.pdf
- <a href="https://www.academia.edu/23567842/Software\_Requirements\_Specification\_for\_Airline\_Flight\_Booking\_System\_Software\_Requirements\_Specification\_for\_Airline\_flight\_booking\_system\_Software\_Requirements\_Specification\_for\_Airline\_flight\_booking\_system\_Software\_requirements\_specification\_for\_Airline\_flight\_booking\_system\_Software\_requirements\_specification\_for\_Airline\_flight\_booking\_system\_Software\_requirements\_specification\_for\_Airline\_flight\_booking\_system\_Software\_requirements\_specification\_for\_Airline\_flight\_booking\_system\_Software\_requirements\_specification\_for\_Airline\_flight\_booking\_system\_Software\_requirements\_specification\_for\_Airline\_flight\_booking\_system\_Software\_requirements\_specification\_for\_Airline\_flight\_booking\_system\_Software\_requirements\_specification\_for\_Airline\_flight\_booking\_system\_Software\_requirements\_specification\_for\_Airline\_flight\_booking\_system\_Software\_requirements\_specification\_for\_Airline\_flight\_booking\_system\_Software\_flight\_booking\_system\_Softwa
- https://my.eng.utah.edu/~richardp/sds.pdf
- <a href="https://www.geeksforgeeks.org/unified-modeling-language-uml-activity-diagram/">https://www.geeksforgeeks.org/unified-modeling-language-uml-activity-diagram/</a>