02- Mini Project Requirement
Develop Front Office Team Portal for Managing Student Enquiries
Project Mock Up Screens : http://13.232.229.99/
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1) Home Page with caurosel
2) Sign Up
3) Unlock Account
4) Login (Only unlocked account users can login)
5) Dashboard (Logged in user performance report)
6) Add Enquriry
7) View Enquiries (with Dynamic Filters)
8) Edit and Update Enquriy Status
9) Filter Enqueries
10) Logout
Note -1 : When user logged in, only that logged in user performance report should display in dashboard and only that user added enquries should display in View Enquiries screen.
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Database : MySQL
Backend : Java + Spring Boot + Data JPA + Web MVC
Frontend : HTML + CSS + JQuery + BootStrap + Ajax + Thymeleaf
Front Ofc Team : registration/unlock/login//forgotpwd/dashboard
student enquiries : Add Enquiry / View Enquries / Edit & Update
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- 1) User will open website home page
- -> Logo Display with Nav bar
- -> Carousel (banners sliding)
- -> Course Images Display
- -> Login Button
- 2) User Registration
- -> Unique Email Validation
- -> Temporary Pwd should be generated by app
- -> Send Registration Email with Temp Pwd and Unlock Link
- 3) Unlock Account
- -> Temporary Pwd validation
- -> Set New Password
- -> Unlock Account

Note: user should unlock account only one time. If user try to unlock account secondtime application should display message as "Your account already unlocked"

- 4) Login Functionality:
- -> Unlocked account users only can login
- -> Invalid Credentials Check (error : Invalid Credentials)
- -> Account Status Check (error : Your account locked)
- -> Login Success: Display Dasboard with Logged in User Performance report
- 5) Forgot Pwd:
- -> Invalid Email: No Account Found With Given Email
- -> Valid Email: Get Pwd from DB and Send User Pwd to user email
- 6) Dashboard:
- -> Display logged in user performance report
- 7) Add Enquiry:
- -> Add new Enquirty with status as 'New'
- 8) View Enguries:
- -> Display enquries which are added by logged in user
- -> Edit Enquiry to update Enquiry Status

-> Filter Enquiries based on given criteria (Async) 9) Logout: -> When user click on logout display home page ======== Db\_Tables ======== 1: AIT\_USER\_DTLS USER ID PK AUTO\_INCREMENT INTEGER NAME VARCHAR UNIQUE EMAIL VARCHAR PHNO INTEGER PWD VARCHAR ACC\_STATUS VARCHAR (DEFAULT : LOCKED) 2: AIT\_STUDENT\_ENQURIES ENQUIRY\_ID PK AUTO\_INCREMENT INTEGER STUDENT NAME VARCHAR **INTEGER** PHNO CLASS\_MODE **VARCHAR** COURSE\_NAME **VARCHAR** ENQUIRY\_STATUS VARCHAR (Default: NEW) CREATED\_DATE DATE UPDATED\_DATE DATE USER ID INTEGER FK REF: AIT\_USER\_DTLS 3: AIT\_COURSES COURSE\_ID **AUTO\_INCREMENT** INTEGER PK COURSE\_NAME VARCHAR 4: AIT\_ENQURIRY\_STATUS STATUS\_ID INTEGER PK AUTO\_INCREMENT STATUS\_NAME **VARCHAR** Entities UserDtlsEntity.java StudentEnqEntity.java CourseEntity.java EnqStatusEntity.java Repositories

UserDtlsRepo.java StudentEnqRepo.java CourseRepo.java EnqStatusRepo.java
Binding Classes
LoginForm.java SignUpForm.java UnlockForm.java
DashboardResponse.java EnquiryForm.java EnquirySearchCriteria.java
Services
UserService.java & UserServiceImpl.java EnquiryService.java & EnquiryServiceImpl.java
Helper Classes (Utility)
PwdUtils.java EmailUtils.java AppExceptionHadler.java
Controllers
IndexController.java UserController.java EnquiryController.java
pages
index.html login.html singup.html unlock.html forgotPwd.html dashboard.html addEnquiry.html viewEnquiry.html errorPage.html

Runner

DataLoader.java (insert course names and enquriy status)

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1) Transactional Table (INSERT / UPDATE / DELETE / RETRIEVE)				
2) Non-Transactional / Static table (retrieve)				
Note: We can insert data into static tables using insert queries directley (we can use runner also)				
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1) Create Project with required dependencies				
a) web-starter b) data-jpa-starter c) mysql-driver d) mail-starter e) thymeleaf-starter f) validation-starter g) project-lombok h) devtools				
2) Configure Datasource & SMTP properties in application.properties file				
3) Create Entity classes & Repository interfaces				
4) Create Form Binding classes				
5) Create Helper classes (Utility classes)				
6) Create Service Interfaces with Impl classes				
7) Create Controller classes with required methods				
8) Create View Pages with presentation logic				
9) Run the application and test it.				
======= Download Resources (images + view pages)				

https://www.mediafire.com/file/vswc2h4nswu3ncn/02_mini_project_resources.zip/file				
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 Module-1 : User management				
1) Index Page 2) Sign Up with Unique Email validation 3) Unlock Account 4) Login 5) Recover Password				
-> Enq Management functionality is depends on logged in user				
-> As it is user specific functionality, our application should remember logged in user details				
-> To remember logged in user details we will use Session in our application.				
Note: When user logged in - session should be created. When user logout then session should be destroyed.				
1) Dashboard 2) Add Enquriy 3) View Enquiries 4) Enquriy Filter 5) Logout				
===== AJAX 				

2 Types of requests

Synchronus Request (whole web page will be reloaded)
 Asynchronus Request (DOM will be updated without reloading page)

Note: To send Async request to server we can use AJAX

-> Ajax stands for Asynchronus Java Script and XML

- 1) We can reload only data without loading whole web page
- 2) We can send/read data to/from server in async mode
- 3) Semless experience for end user
- 1) Add jquery dependency in pom.xml

```
<dependency>
<groupId>org.webjars</groupId>
<artifactId>jquery</artifactId>
<version>3.6.4</version>
</dependency>
```

- 2) Include jquery.min.js file in our html page in <head/> tag <script src="/webjars/jquery/3.6.4/jquery.min.js"></script>
- 3) write ajax logic to send async request to server

```
<Script>
$(document).ready(function() {
$("#cname").on("change", function(e) {
$.ajax({
type: "GET",
url: "cmsg",
data:{
cname: $("#cname").val()
},
success: function(data) {
$("#dropDownDiv").html(data);
});
});
$("#submitBtn").click(function(e) {
$.ajax({
type: "GET",
url: "msg",
data:{
name: $("#username").val()
},
success: function(data) {
$("#msgDiv").html(data);
error : function(result) {
alert('error');
});
```

```
});
});
</Script>
4) Update response in web page
<!DOCTYPE html>
<html xmlns:th="www.thymeleaf.org">
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
<script src="/webjars/jquery/3.6.4/jquery.min.js"></script>
<Script>
$(document).ready(function() {
$("#cname").on("change", function(e) {
$.ajax({
type: "GET",
url: "cmsg",
data:{
cname: $("#cname").val()
},
success: function(data) {
$("#dropDownDiv").html(data);
});
});
$("#submitBtn").click(function(e) {
$.ajax({
type: "GET",
url: "msg",
data:{
name: $("#username").val()
},
success: function(data) {
$("#msgDiv").html(data);
error : function(result) {
alert('error');
});
});
});
</Script>
</head>
<body>
```

**Enter Name:** 

```
<input type="text" name="name" id="username" />
<input type="button" value="Submit" id="submitBtn" />
<hr />
<div id="msqDiv"></div>
<hr />
<select id="cname">
<option>-Select-</option>
<option>India
<option>USA</option>
<option>UK</option>
<option>Canada</option>
</select>
<hr />
<div id="dropDownDiv"></div>
</body>
</html>
package in.ashokit.rest;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.ResponseBody;
@Controller
public class UserRestController {
@GetMapping("/")
public String load() {
return "index";
@GetMapping("/cmsg")
@ResponseBody
public String getDropdownMsg(@RequestParam("cname") String cname) {
String msg = "I am going to "+ cname+" in next month";
return msg;
}
@GetMapping("/msg")
@ResponseBody
public String getMsg(@RequestParam("name") String name) {
String msg = "Hello, " + name;
```

return msg;	
}	
}	
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