

# Training Management System

Mohammad Ahsanul Islam

Our Training Management System (TMS) aims to streamline training coordination, automate batch management, and foster collaboration between trainers and trainees, resulting in efficient and effective training management.



# Project Overview

- ❑ Feature List
- ❑ Technologies/Tools
- ❑ Screenshots of the UI
- ❑ My Learnings from this Project
- ❑ Challenges and how to solve those



# Feature List

**User  
Authentication**

**Trainers and  
Trainee  
Registration**

**Live Group Chat**

**Batch and Course  
Creation**

**Trainer/Trainee  
Assignment**

**Batch Scheduling  
and Management**

# Technology / Tools

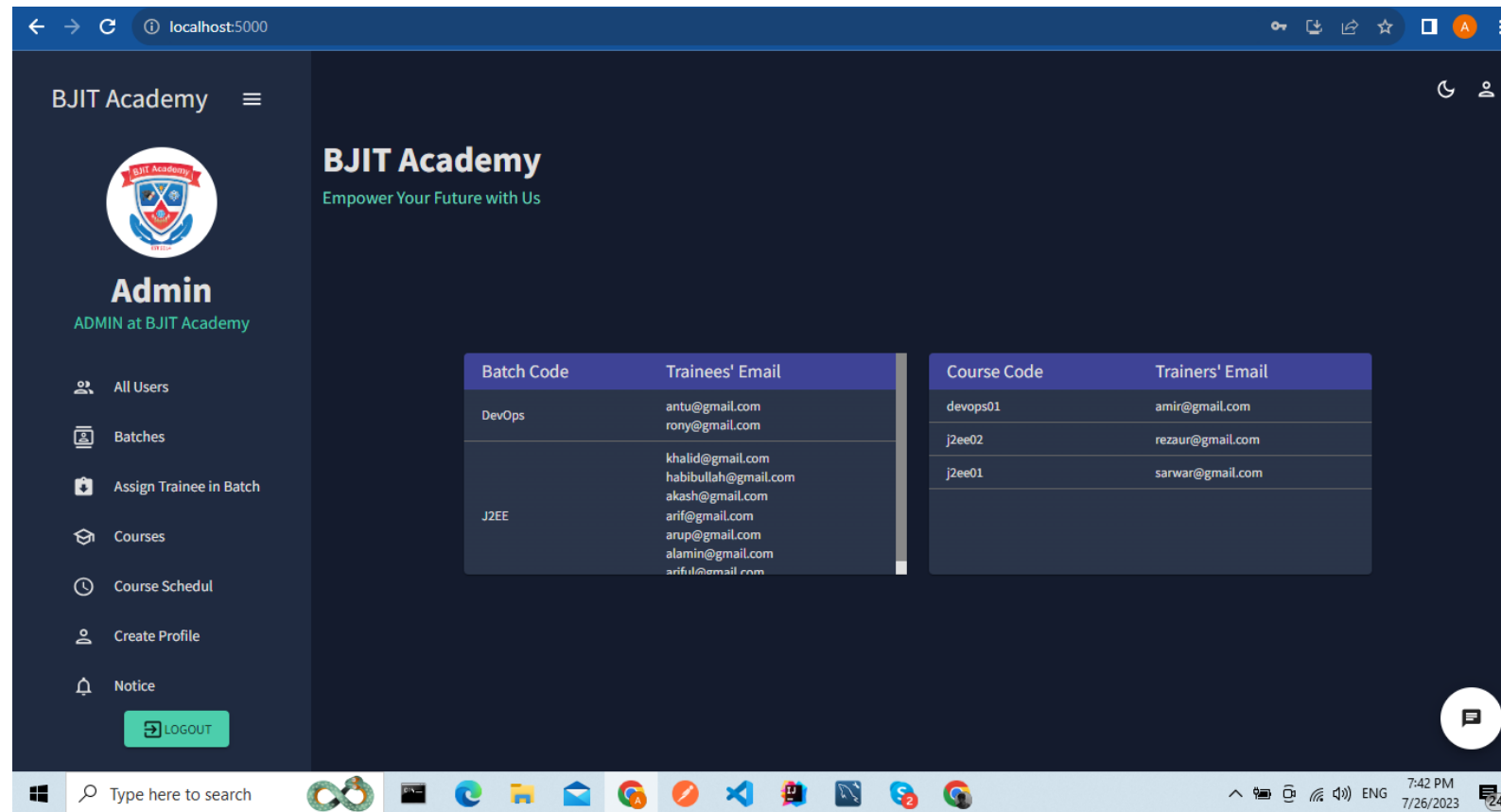
## Back End

Spring Boot  
Spring Security  
Jwt Token  
Rest Architechture  
JPA, Lombok  
Hibernate ORM  
Multipart Rest

## Font End

React Js  
Mui  
React Bootstrap  
React Router.  
Local Stroage.

# UI




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localhost:5000/schedules

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BJIT Academy



Admin

ADMIN at BJIT Academy

All Users

Batches

Assign Trainee in Batch

Courses

Course Schedule

Create Profile

Notice

🚪 LOGOUT

Batch Name: DevOps

Description: DevOps is a set of practices that combine software development (Dev) and IT operations (Ops) to streamline the software development lifecycle, enabling continuous integration, continuous delivery, and automation, fostering collaboration and improvin..

Schedule ID: 3

Start Date: 2023-07-01

End Date: 2023-07-31

Trainer Email: amir@gmail.com

Course Code: devops01

Start Time: 18:19

End Time: 18:19

Batch Name: J2EE

Description: Spring Boot is a powerful Java framework that simplifies the development of production-ready, stand-alone, and microservices-based applications, providing easy configuration, robust dependency management, and rapid development capabilities.

Schedule ID: 1

Start Date: 2023-07-01

End Date: 2023-07-31

Trainer Email: sarwar@gmail.com

Course Code: j2ee01

Start Time: 18:18

End Time: 18:18

Schedule ID: 2

Start Date: 2023-08-01

End Date: 2023-08-05

Trainer Email: rezaur@gmail.com

Course Code: j2ee02

Start Time: 18:18

End Time: 18:18

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**Sarwar Miral**

TRAINER at BJIT Academy



All Users



Batches



Courses



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Assignments



Notice



Classroom Post

LOGOUT

**Your Assigned Assignments**

CREATE ASSIGNMENT

Assignment ID	Question	Assignment File	View All Answers	Delete Assignment
1	Explain the concept of polymorphism in Java.	<a href="#">ahsanul_CV.pdf</a>	<button>VIEW ANSWERS</button>	<button>DELETE</button>
2	Dummy Assignment 02	<a href="#">download(1).png</a>	<button>VIEW ANSWERS</button>	<button>DELETE</button>



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localhost:5000/2/all-submission

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👤 All Users

📅 Batches

🎓 Courses

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📁 Assignments

🔔 Notice

📄 Classroom Post

🚪 LOGOUT

Submitted Answer

Answer ID	Answer	Answer File	Evaluation	Trainee Email	Add Mark
3	dummy ans 02		30	arif@gmail.com	<div>ADD MARK</div>


Add Mark for Answer ID: 3

Mark

SUBMIT

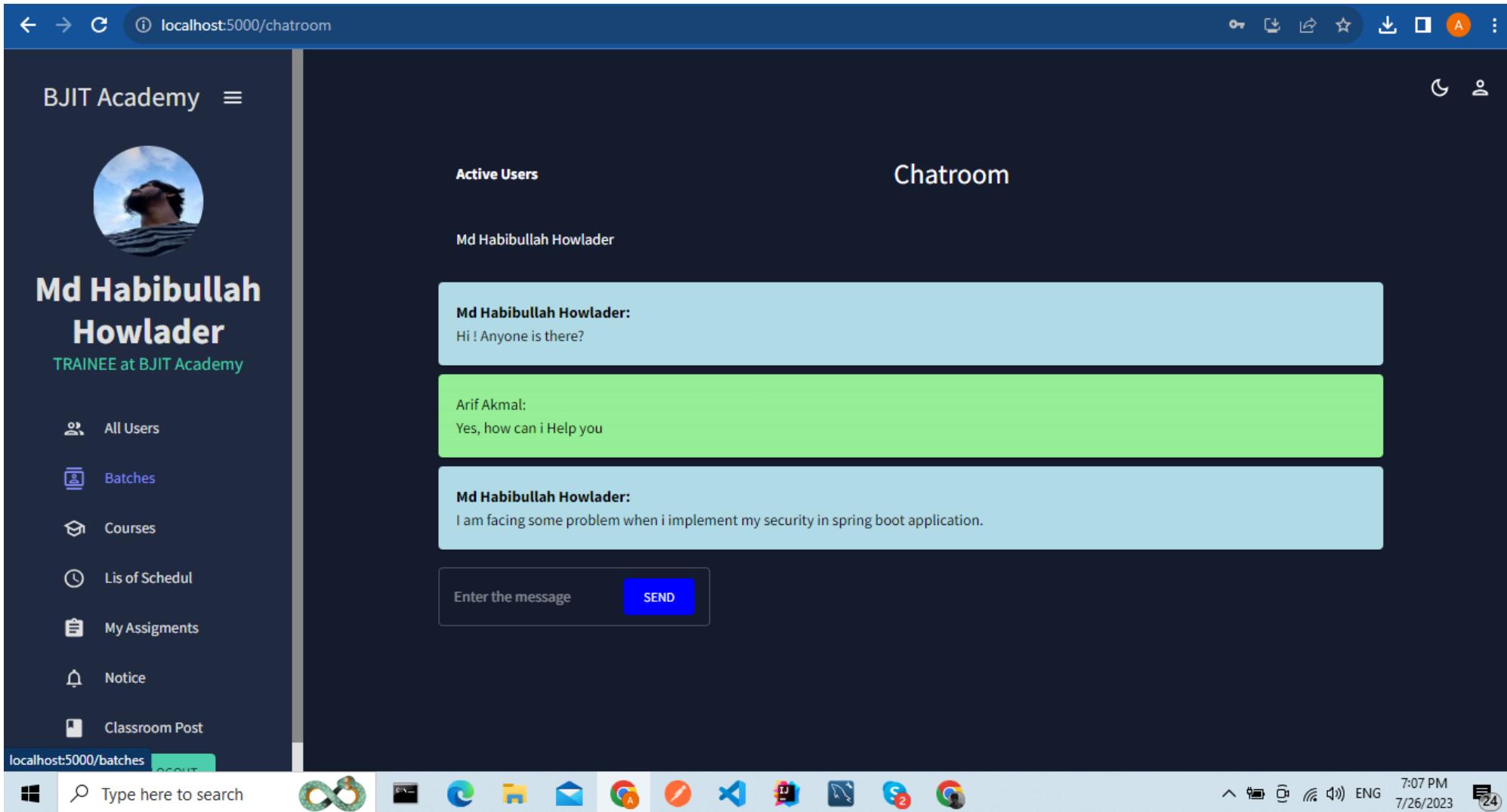
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**Arif Akmal**

TRAINEE at BJIT Academy

All Users

Batches

Courses

Lis of Schedul

My Assignments

Notice

Classroom Post

LOGOUT

Active Users

Arif Akmal

Md Habibullah Howlader

Chatroom

Md Habibullah Howlader:  
Hi ! Anyone is there?

**Arif Akmal:**  
Yes, how can i Help you

Md Habibullah Howlader:  
I am facing some problem when i implement my security in spring boot application.

Enter the message

SEND



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**Arif Akmal**

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 All Users Batches Courses Lis of Schedul My Assigments Notice Classroom Post LOGOUT**S** Sarwar Miral

Are you looking to kickstart your Java web development journey? Look no further! Spring Boot, the powerful framework, offers a simple and efficient way to build production-ready applications. Whether you're a seasoned developer or just starting, Spring Boot's convention-over-configuration approach and auto-configuration magic will streamline your development process. Embrace the simplicity, unleash the productivity, and let Spring Boot take your projects to new heights! 🚀🔧



Comments:

**A** Arif Akmal: Thank you san. It's very helpful for us.**M** Md Habibullah Howlader: Thank you san for this.

New Comment



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# Covered Topic

## Lambdra Exception

```
Batch batchDB = batchRepo.findById(batchCode).orElseThrow(() -> new ResourceNotFoundException  
    ("Batch", "batch code", batchCode));
```

## Functional Interface

```
8 usages  Md Ahsanul Islam  
@FunctionalInterface  
public interface UserDetails {  
    6 usages  Md Ahsanul Islam  
    public User getUser(String email);  
}
```

## Exception Handling with Annotations

```

Md Ahsanul Islam
@RestControllerAdvice
public class GlobalExceptionHandler {

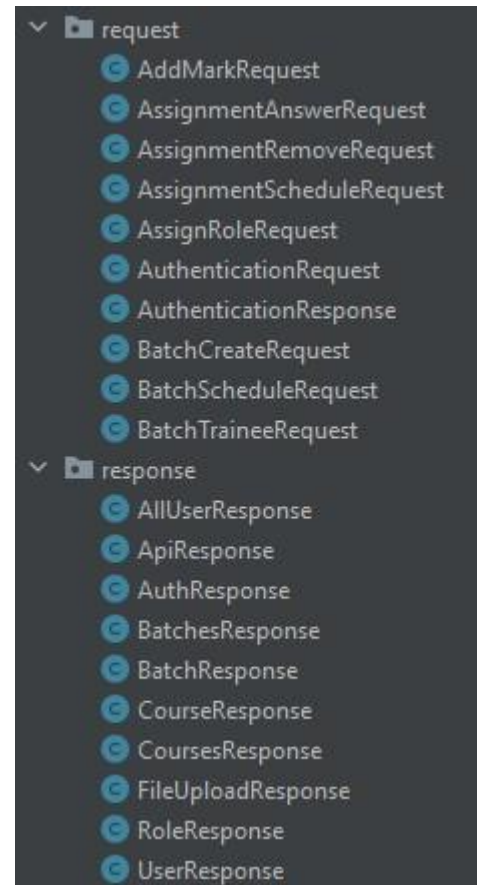
    Md Ahsanul Islam
    @ExceptionHandler(ResourceNotFoundException.class)
    public ResponseEntity<ApiResponse> resourceNotFoundExceptionHandler(ResourceNotFoundException ex) {
        String message = ex.getMessage();
        ApiResponse apiResponse = new ApiResponse(message, success: false);
        return new ResponseEntity<ApiResponse>(apiResponse, HttpStatus.NOT_FOUND);
    }
}

```

## Configure Spring Security

```
@Bean
public SecurityFilterChain securityFilterChain(HttpSecurity http) throws Exception {
    http
        .cors() CorsConfigurer<HttpSecurity>
        .and() HttpSecurity
        .csrf() CsrfConfigurer<HttpSecurity>
        .disable() HttpSecurity
        .authorizeHttpRequests() AuthorizationManagerRequestMat...
        .requestMatchers(🔒 "/api/downloadFile/{fileCode}") AuthorizedUrl
        .permitAll() AuthorizationManagerRequestMat...
        .requestMatchers(🔒 "/auth/login") AuthorizedUrl
        .permitAll() AuthorizationManagerRequestMat...
        .requestMatchers(🔒 "/ws/**") AuthorizedUrl
        .permitAll() AuthorizationManagerRequestMat...
        .requestMatchers(🔒 "/api/course/get/all", 🔒 "/api/user/get-all-user",
            🔒 "/api/user/get-all-user", 🔒 "/api/user/get-all-trainer", 🔒 "/api/user/get-all-trainee",
            🔒 "/classrooms/{classroomId}/posts", 🔒("/{classroomId}/post/{postId}/comments",
            🔒("/{classroomId}/post/{postId}", 🔒 "/api/batch/get/all", 🔒 "api/batch/get-all-notice")
        .hasAnyAuthority( ...authorities: "ADMIN", "TRAINER", "TRAINEE")
        .requestMatchers(🔒 "/api/user/create-user").hasAuthority("ADMIN")
        .requestMatchers(🔒 "/api/batch/create", 🔒 "/api/batch/add-schedule",
            🔒 "/api/batch/remove-schedule", 🔒 "/api/batch/add-trainee", 🔒 "api/batch/create-notice",
            🔒 "/api/course/Create", 🔒 "/api/course/update", 🔒 "/api/user/create-user",
```

## All Request and response model





**Thank You**