System Requirements Specification Index

For

Tutor Finder Application

Version 1.0

IIHT Pvt. Ltd.
fullstack@iiht.com

Contents

1 Business-Requirement:

1.1 Problem Statement:

The purpose of this application is to provide a platform to find all tutors for all courses. Where tutor can add, edit and delete themselves.

1.1.1 Tutor Finder Application:

The Tutor Finder Application allows you to:

1. Access the home page.
2. Should be able to add a new tutor.
3. It can have basic fields like name, subject, description, duration and price.
4. Should be able to get the list of tutors.
5. Should be able to edit and delete any tutor.
6. Should be able to search for a tutor.

2. Template Code Structure:

2.1 Tutor Controller

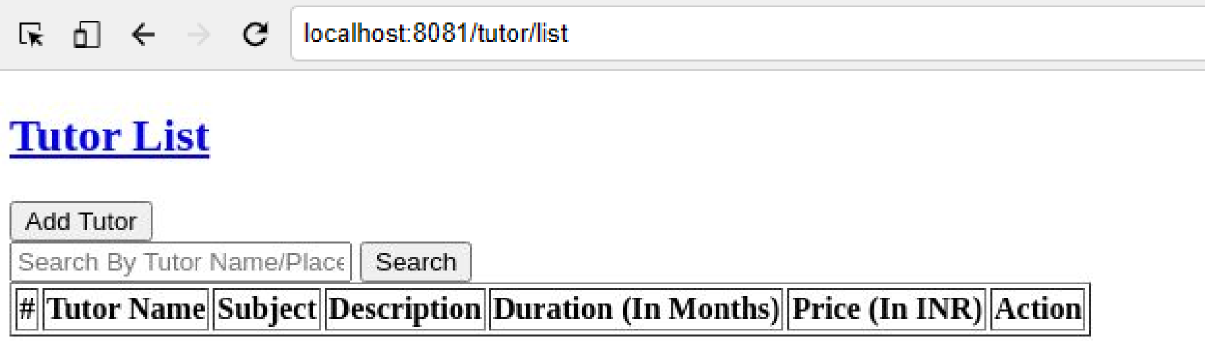
Method Exposed	Purpose
listTutors()	Should return page "list-tutors" with required data.
showFormForAdd()	Should return page "add-tutor-form" for adding a tutor.
saveTutor()	Should save a tutor and return "tutor/list" with required data.
showFormForUpdate()	Should show tutor details in page "update-tutor-form" to edit a tutor.
deleteTutor()	Should delete a tutor and return "tutor/list" with required data.
searchTutors()	Should search for a tutor and return "list-tutor" with required data.

3. Resources AVAILABLE:

Description	View Pages Name	Remarks
Common UI		
Home Page	list-tutors	Contains a homepage which shows a list of all tutors along with options to add, edit , delete and search a tutor.
All tutor	list-tutors	
Add a tutor	add-tutor-form	
Update a tutor	update-tutor-form	
Search a tutor	list-tutor	

3 SUGGESTED WIREFRAMES:

1. Homepage – Visitor Landing Page

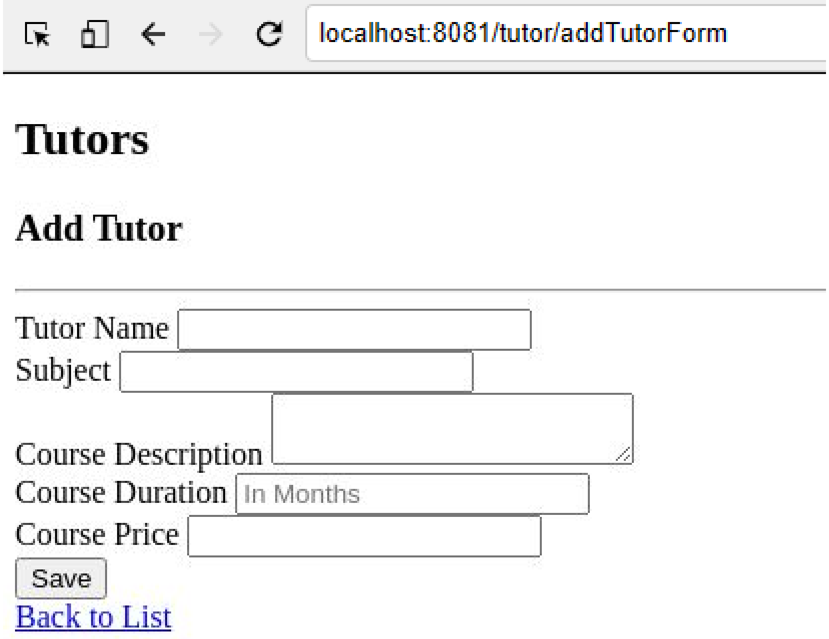


localhost:8081/tutor/list

Tutor List

#	Tutor Name	Subject	Description	Duration (In Months)	Price (In INR)	Action

2. Create a Tutor



localhost:8081/tutor/addTutorForm

Tutors

Add Tutor

Tutor Name

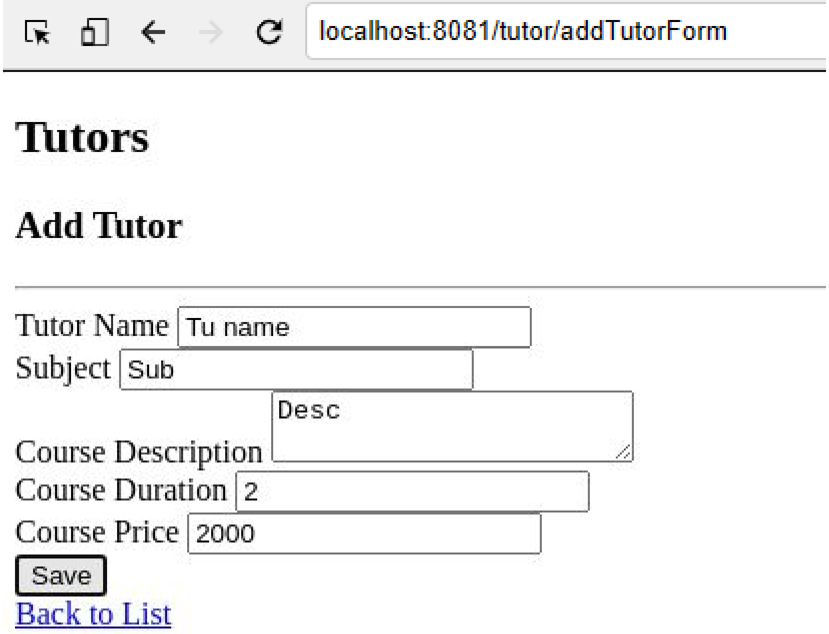
Subject

Course Description

Course Duration In Months

Course Price

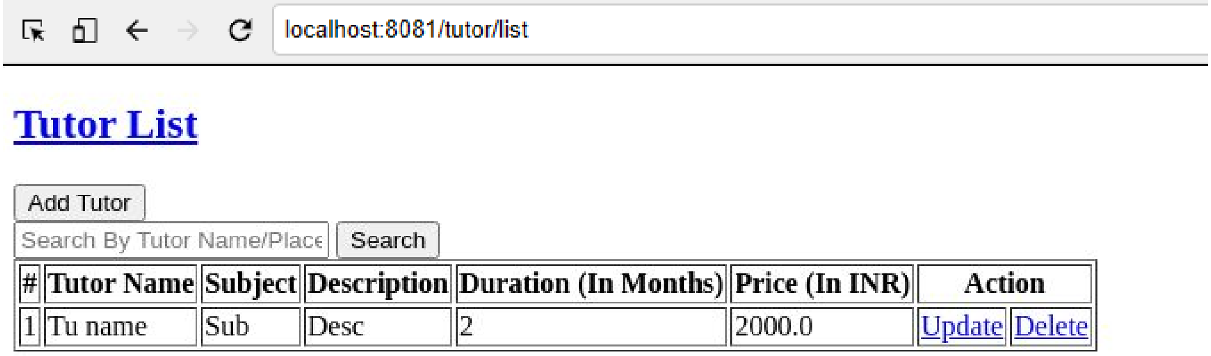
Back to List



Tutors

Add Tutor

Tutor Name: Tu name
Subject: Sub
Course Description: Desc
Course Duration: 2
Course Price: 2000



#	Tutor Name	Subject	Description	Duration (In Months)	Price (In INR)	Action	
1	Tu name	Sub	Desc	2	2000.0	Update	Delete

Business Validations

1. Id must be of type id.
2. Name value not blank, min 2 and max 40 characters.
3. Subject value not blank.
4. Description value not blank, min 2 and max 200 characters.
5. Duration value not null.
6. Price value not null.

4 Considerations

The Code template already contains skeleton methods for service and controller layer. Please write your logic in it.

5 Execution Steps to Follow

1. **All actions like build, compile, running application, running test cases will be through Command Terminal.**
2. **To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) -> Terminal -> New Terminal**
3. **To build your project use command:**

   ```
   mvn clean package -Dmaven.test.skip
   ```
4. **To launch your application:**

   ```
   java -jar <your application war file name>
   ```
5. **This editor Auto Saves the code**
6. **If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.**
7. **These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.**
8. **To test any Restful application, the last option on the left panel of IDE, you can find ThunderClient, which is the lightweight equivalent of POSTMAN.**
9. **This is a web-based application, to run the application on a browser, use the internal browser in the workspace. Click on the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.**

   Note: The application will not run in the local browser
10. **Default credentials for MySQL:**
    a. **Username: root**
    b. **Password: pass@word1**
11. **To login to mysql instance: Open new terminal and use following command:**

a. sudo systemctl enable mysql
b. sudo systemctl start mysql

NOTE: After typing the second sql command (sudo systemctl start mysql), you may encounter a warning message like :

> System has not been booted with systemd as init system (PID 1). Can't operate. Failed to connect to bus: Host is down

>> Please note that this warning is expected and can be disregarded. Proceed to the next step.

c. mysql -u root -p
The last command will ask for password which is 'pass@word1'

12. Mandatory: Before final submission run the following command:
mvn test

13. You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.