
System Requirements Specification Index

For

Tutor Finder Application

Version 1.0

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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 tutors can add, edit and delete their status.

The Tutor Finder Application is designed to provide a platform to find all tutors for all courses and facilitate the connection between students and educational tutors.

You are tasked with creating a system that provides access to a home page and enables the addition of new tutors with details such as name, subject, description, duration, and price. The application should allow users include functionalities to edit and delete tutor profiles. Additionally, there should be a search feature enabling users to find tutors by their names, thereby making the process of finding the right educational support straightforward and efficient.

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 along with options to sort in ascending and descending order in each field.
5. Should be able to edit and delete any tutor.
6. Should be able to search for a tutor by tutor name.

2. TEMPLATE CODE STRUCTURE:

2.1 TUTOR CONTROLLER

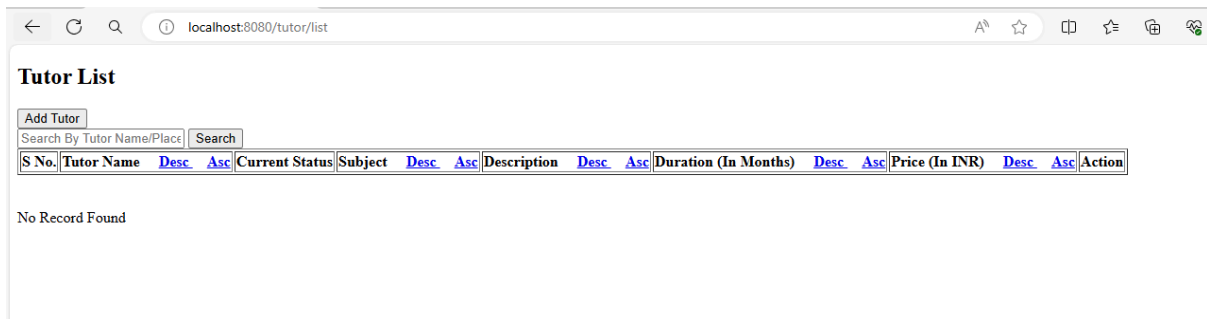
Method Exposed	Purpose
<code>listTutors()</code>	Should return page "list-tutors" with required data.
<code>showFormForAdd()</code>	Should return page "add-tutor-form" for adding a tutor.
<code>saveTutor()</code>	Should save a tutor and return "tutor/list" with required data.
<code>showFormForUpdate()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

2.2 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-tutors	

3 SUGGESTED WIREFRAMES:

1. Homepage – Visitor Landing Page



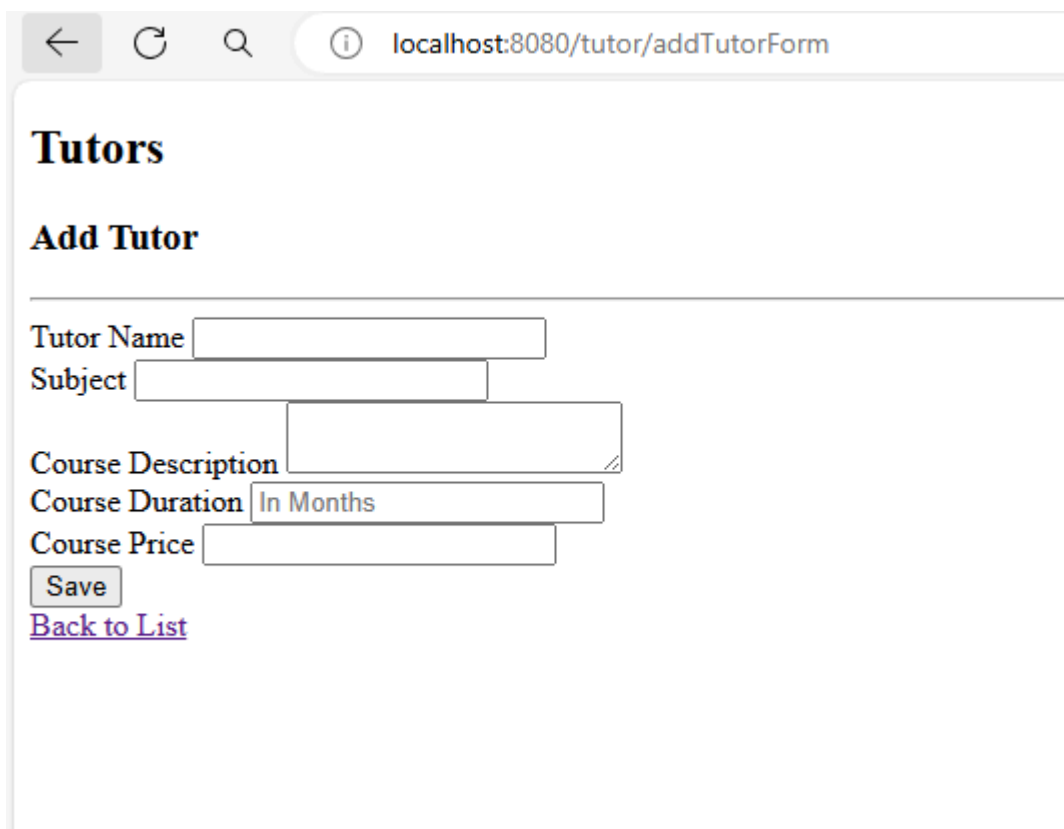
A screenshot of a web browser showing the 'Tutor List' page. The browser's address bar displays 'localhost:8080/tutor/list'. The page has a title 'Tutor List'. Below the title, there is an 'Add Tutor' button and a search bar with the placeholder text 'Search By Tutor Name/Place' and a 'Search' button. A table is displayed with the following columns: 'S No.', 'Tutor Name', 'Desc.', 'Asc.', 'Current Status', 'Subject', 'Desc.', 'Asc.', 'Description', 'Desc.', 'Asc.', 'Duration (In Months)', 'Desc.', 'Asc.', 'Price (In INR)', 'Desc.', 'Asc.', and 'Action'. Below the table, the text 'No Record Found' is visible.

Tutor List

Search By Tutor Name/Place

S No.	Tutor Name	Desc.	Asc.	Current Status	Subject	Desc.	Asc.	Description	Desc.	Asc.	Duration (In Months)	Desc.	Asc.	Price (In INR)	Desc.	Asc.	Action
No Record Found																	

2. Create/Add a Tutor



A screenshot of a web browser showing the 'Add Tutor' form. The browser's address bar displays 'localhost:8080/tutor/addTutorForm'. The page has a title 'Tutors' and a subtitle 'Add Tutor'. Below the subtitle, there is a form with the following fields: 'Tutor Name', 'Subject', 'Course Description', 'Course Duration' (with a placeholder 'In Months'), and 'Course Price'. There is a 'Save' button and a 'Back to List' link.

Tutors

Add Tutor

Tutor Name

Subject

Course Description

Course Duration

Course Price

[Back to List](#)

← ↻ 🔍 ⓘ localhost:8080/tutor/addTutorForm

Tutors

Add Tutor

Tutor Name

Subject

Course Description

Course Duration

Course Price

[Back to List](#)

3. Tutor List

← ↻ 🔍 ⓘ localhost:8080/tutor/list

Tutor List

Search By Tutor Name/Place

S No.	Tutor Name <small>Desc. Asc</small>	Current Status	Subject <small>Desc. Asc</small>	Description <small>Desc. Asc</small>	Duration (In Months) <small>Desc. Asc</small>	Price (In INR) <small>Desc. Asc</small>	Action		
1	John Doe	Available	Computer Science	Core of Java & Angular	3	20000.0	Update	Delete	Mark as unavailable

1

4. Update a Tutor

← ↻ 🔍 ⓘ localhost:8080/tutor/updateTutorForm?tutorId=2

Tutors

Update Tutor

Tutor Name

John Doe

Subject

Computer Science

Course Description

Core of Java & Angular

Course Duration

4

Course Price

15000.0

Save

[Back to List](#)

← ↻ 🔍 ⓘ localhost:8080/tutor/list

Tutor List

Add Tutor

Search By Tutor Name/Place Search

S No.	Tutor Name Desc Asc	Current Status	Subject Desc Asc	Description Desc Asc	Duration (In Months) Desc Asc	Price (In INR) Desc Asc	Action
1	John Doe	Available	Computer Science	Core of Java & Angular	4	15000.0	Update Delete Mark as unavailable
2	Mary B	Available	Physics	Research on Nuclear Physics	5	30000.0	Update Delete Mark as unavailable

1

5. Delete a Tutor

localhost:8080/tutor/list

Tutor List

Search By Tutor Name/Place

localhost:8080 says
Are you sure you want to delete this tutor?

S No.	Tutor Name Desc.	Current Status	Subject Desc.	Description Desc. Asc.	Duration (In Months) Desc. Asc.	Price (In INR) Desc. Asc.	Action
1	John Doe	Available	Computer Science	Core of Java & Angular	4	15000.0	Update Delete Mark as unavailable
2	Mary B	Available	Physics	Research on Nuclear Physics	5	30000.0	Update Delete Mark as unavailable

1

localhost:8080/tutor/list

Tutor List

Search By Tutor Name/Place

S No.	Tutor Name Desc.	Current Status	Subject Desc.	Description Desc. Asc.	Duration (In Months) Desc. Asc.	Price (In INR) Desc. Asc.	Action
1	John Doe	Available	Computer Science	Core of Java & Angular	4	15000.0	Update Delete Mark as unavailable

1

6. Search a Tutor

localhost:8080/tutor/search

Tutor List

John

S No.	Tutor Name Desc.	Current Status	Subject Desc.	Description Desc. Asc.	Duration (In Months) Desc. Asc.	Price (In INR) Desc. Asc.	Action
1	John Doe	Available	Computer Science	Core of Java & Angular	4	15000.0	Update Delete Mark as unavailable

1

7. Tutor Availability

localhost:8080/tutor/list

Tutor List

Search By Tutor Name/Place

S No.	Tutor Name Desc.	Current Status	Subject Desc.	Description Desc. Asc.	Duration (In Months) Desc. Asc.	Price (In INR) Desc. Asc.	Action
1	John Doe	Not Available	Computer Science	Core of Java & Angular	4	15000.0	Update Delete Mark as Available
2	Mary B	Available	Physics	research in nuclear physics	5	30000.0	Update Delete Mark as unavailable

1

4 BUSINESS VALIDATIONS

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

5 CONSIDERATIONS

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

6 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.