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ITITIU20331

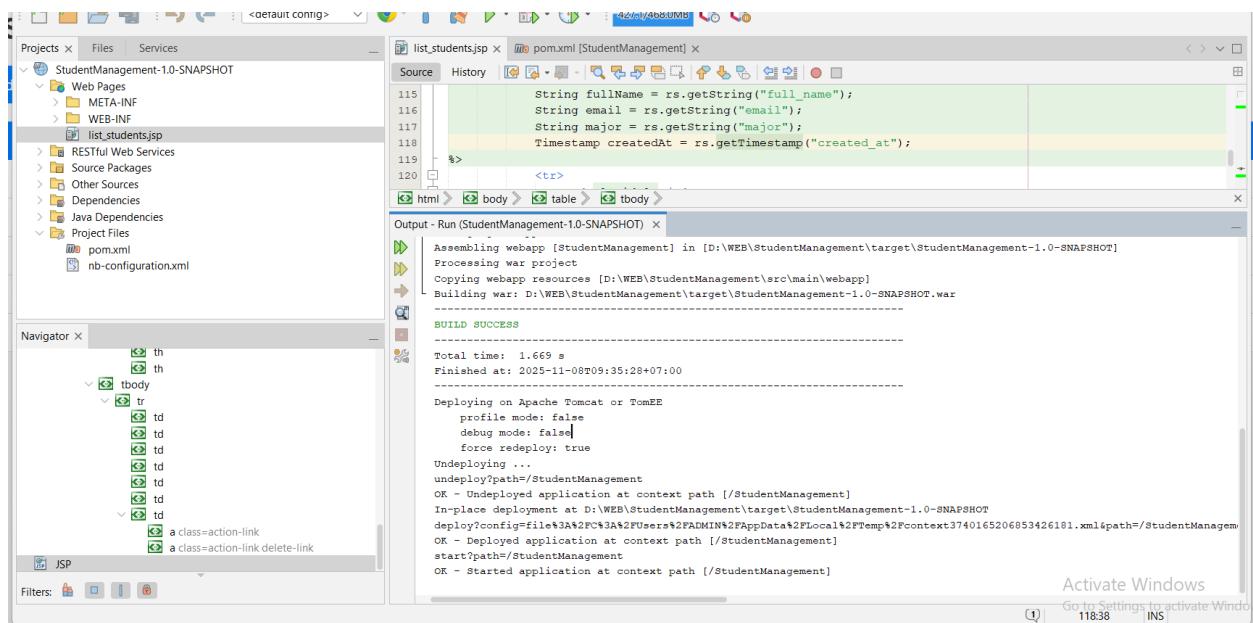
LAB 4

WEB APP

REPORT

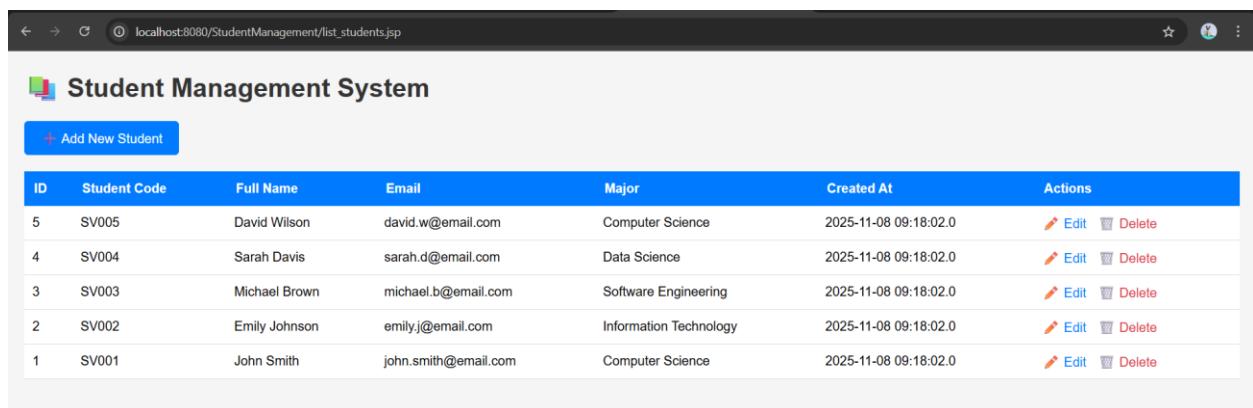
EX1:

TASK 1.1:



```
Output - Run (StudentManagement-1.0-SNAPSHOT) x
Assembling webapp [StudentManagement] in [D:\WEB\StudentManagement\target\StudentManagement-1.0-SNAPSHOT]
Processing war project
Copying webapp resources [D:\WEB\StudentManagement\src\main\webapp]
Building war: D:\WEB\StudentManagement\target\StudentManagement-1.0-SNAPSHOT.war
BUILD SUCCESS
-----
Total time: 1.669 s
Finished at: 2025-11-08T09:35:28+07:00
-----
Deploying on Apache Tomcat or TomEE
profile mode: false
debug mode: false
force redeploy: true
Undeploying ...
undeploy?path=/StudentManagement
OK - Undeployed application at context path [/StudentManagement]
In-place deployment at D:\WEB\StudentManagement\target\StudentManagement-1.0-SNAPSHOT
deployConfigFile=3A%2FC%3A%2FUsers%2FADMIN%2FAppData%2FLocal%2FTemp%2Fcontext3740165206053426181.xml&path=/StudentManagement
OK - Deployed application at context path [/StudentManagement]
start?path=/StudentManagement
OK - Started application at context path [/StudentManagement]
```

TASK 1.2:



ID	Student Code	Full Name	Email	Major	Created At	Actions
5	SV005	David Wilson	david.w@email.com	Computer Science	2025-11-08 09:18:02.0	
4	SV004	Sarah Davis	sarah.d@email.com	Data Science	2025-11-08 09:18:02.0	
3	SV003	Michael Brown	michael.b@email.com	Software Engineering	2025-11-08 09:18:02.0	
2	SV002	Emily Johnson	emily.j@email.com	Information Technology	2025-11-08 09:18:02.0	
1	SV001	John Smith	john.smith@email.com	Computer Science	2025-11-08 09:18:02.0	

EX2:

The screenshot shows a web browser window with the URL `localhost:8080/StudentManagement/add_students.jsp`. A modal dialog box titled "+ Add New Student" is open. It contains four input fields: "Student Code *", "Full Name *", "Email", and "Major". The "Student Code" field has the placeholder "e.g., SV001". The "Full Name" field has the placeholder "Enter full name". The "Email" field has the placeholder "student@email.com". The "Major" field has the placeholder "e.g., Computer Science". At the bottom of the modal are two buttons: a green "Save Student" button with a person icon and a grey "Cancel" button.

TEST CASE:

Valid data:

The screenshot shows the "Student Management System" dashboard. At the top, there is a success message: "Student added successfully". Below it is a blue header bar with a "Add New Student" button. The main area is a table with columns: ID, Student Code, Full Name, Email, Major, Created At, and Actions. The table contains six rows of student data. The "Actions" column for each row includes "Edit" and "Delete" buttons.

ID	Student Code	Full Name	Email	Major	Created At	Actions
6	SV006	John Doe			2025-11-08 10:01:51.0	
5	SV005	David Wilson	david.w@email.com	Computer Science	2025-11-08 09:18:02.0	
4	SV004	Sarah Davis	sarah.d@email.com	Data Science	2025-11-08 09:18:02.0	
3	SV003	Michael Brown	michael.b@email.com	Software Engineering	2025-11-08 09:18:02.0	
2	SV002	Emily Johnson	emily.j@email.com	Information Technology	2025-11-08 09:18:02.0	
1	SV001	John Smith	john.smith@email.com	Computer Science	2025-11-08 09:18:02.0	

Empty required field:

+ Add New Student

Student Code *

e.g., SV001

Full Name *

John

Email

student@email.com

Major

e.g., Computer Science

Save Student Cancel

Duplicate code:

C ⓘ localhost:8080/StudentManagement/add_students.jsp?error=Student%20code%20already%20exists

+ Add New Student

Student code already exists

Student Code *

e.g., SV001

Full Name *

Enter full name

Email

student@email.com

Major

e.g., Computer Science

Save Student Cancel

EX3:

TASK 3.1:

Edit Student Information

Student Code
SV006
Cannot be changed

Full Name *
John Doe

Email

Major

Actions: [Update](#) [Cancel](#)

TASK 3.2:

Student Management System

Student updated successfully

ID	Student Code	Full Name	Email	Major	Created At	Actions
6	SV006	Joe			2025-11-08 10:01:51.0	Edit Delete
5	SV005	David Wilson	david.w@email.com	Computer Science	2025-11-08 09:18:02.0	Edit Delete
4	SV004	Sarah Davis	sarah.d@email.com	Data Science	2025-11-08 09:18:02.0	Edit Delete
3	SV003	Michael Brown	michael.b@email.com	Software Engineering	2025-11-08 09:18:02.0	Edit Delete
2	SV002	Emily Johnson	emily.j@email.com	Information Technology	2025-11-08 09:18:02.0	Edit Delete
1	SV001	John Smith	john.smith@email.com	Computer Science	2025-11-08 09:18:02.0	Edit Delete

EX4:

localhost:8080/StudentManagement/list_students.jsp?message=Student%20updated%20successfully

Student Management System

Student updated successfully

localhost:8080 says
Are you sure?

OK Cancel

ID	Student Code	Full Name	Email	Major	Created At	Actions
6	SV006	Joe			2025-11-08 10:01:51.0	Edit Delete
5	SV005	David Wilson	david.w@email.com	Computer Science	2025-11-08 09:18:02.0	Edit Delete
4	SV004	Sarah Davis	sarah.d@email.com	Data Science	2025-11-08 09:18:02.0	Edit Delete
3	SV003	Michael Brown	michael.b@email.com	Software Engineering	2025-11-08 09:18:02.0	Edit Delete
2	SV002	Emily Johnson	emily.j@email.com	Information Technology	2025-11-08 09:18:02.0	Edit Delete
1	SV001	John Smith	john.smith@email.com	Computer Science	2025-11-08 09:18:02.0	Edit Delete

localhost:8080/StudentManagement/list_students.jsp?message=Student%20deleted%20successfully

Student Management System

Student deleted successfully

ID	Student Code	Full Name	Email	Major	Created At	Actions
5	SV005	David Wilson	david.w@email.com	Computer Science	2025-11-08 09:18:02.0	Edit Delete
4	SV004	Sarah Davis	sarah.d@email.com	Data Science	2025-11-08 09:18:02.0	Edit Delete
3	SV003	Michael Brown	michael.b@email.com	Software Engineering	2025-11-08 09:18:02.0	Edit Delete
2	SV002	Emily Johnson	emily.j@email.com	Information Technology	2025-11-08 09:18:02.0	Edit Delete
1	SV001	John Smith	john.smith@email.com	Computer Science	2025-11-08 09:18:02.0	Edit Delete