UNIT TESTING

[1] Auth Controller

1)Sign Up

```
Tests: 1 failed, 4 passed, 5 total
Snapshots: 0 total
Time: 3.134 s
Ran all test suites matching /signup.1.early.test.js/i.
```

2)Verify Email

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 3.809 s, estimated 6 s
Ran all test suites matching /verifyEmail.early.test.js/i.
```

3) Login

```
Tests: 4 passed, 4 total

Snapshots: 0 total

Time: 3.577 s, estimated 4 s

Ran all test suites matching /login.early.test.js/i.
```

4) Forgot Password

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 3.609 s, estimated 6 s
```

5) Reset Password

```
Tests: 4 passed, 4 total
Snapshots: 0 total
Time: 3.77 s, estimated 6 s
Ran all test suites matching /resetPassword.early.test.js/i.
```

6) Logout

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 5 s
```

For auth controller file:



[2] User Controller

1)Get Student

2) Get User

```
PASS src/controller/user.controller.early.test/getUser.early.test.js (15.921 s)
getUser() getUser method
Happy Paths
✓ should return user data when a valid user ID is provided (5 ms)
Edge Cases
✓ should return a 400 error if there is a database error

Test Suites: 1 passed, 1 total
Tests: 2 passed, 2 total
Snapshots: 0 total
Time: 17.201 s
```

3) Insert User

4) Join Class

5) Update User

```
PS C:\Users\VIDHI\OneDrive\Desktop\LFY\backend> npx jest updateUser.early.test.js

PASS src/controller/user.controller.early.test/updateUser.early.test.js

updateUser() updateUser method

Happy Paths

v should update a user successfully and return the updated user (4 ms)

Edge Cases

v should return a 400 error if the user ID is invalid (1 ms)

v should return a 400 error if the update data is invalid (1 ms)

v should handle unexpected errors gracefully

Test Suites: 1 passed, 1 total

Tests: 4 passed, 4 total

Snapshots: 0 total

Time: 1.543 s, estimated 17 s
```

6) Validate User

```
PS C:\Users\VIDHI\OneDrive\Desktop\LFY\backend> npx jest validateUser.early.test.js

pass src/controller/user.controller.early.test/validateUser.early.test.js

validateUser() validateUser method

Happy paths

validateUser a token and user data when credentials are valid (3 ms)

Edge cases

validateUser() validateUser method

Happy paths

validateUser() validateUser method

Happy paths

validateUser() validateUser.early.test.js

validateUser.early
```

7) Delete User

For User Controller file:

Test Suites: 7 passed, 7 total

Tests: 25 passed, 25 total

Snapshots: 0 total

Time: 3.674 s, estimated 16 s

Ran all test suites matching /User.controller.early.test/i.

File ▲	\$	Statements	\$	Branches	\$	Functions	\$	Lines	\$
user.controller.js		100%	68/68	100%	14/14	100%	10/10	100%	67/67

[3] Class Controller

1)Insert Class

2) Update Class

```
PS C:\Users\VIDHI\OneDrive\Desktop\LFY\backend> npx jest updateClass.early.test.js

pASS src/controller/class.controller.early.test/updateClass.early.test.js

updateClass() updateClass method

Happy Paths

v should update the class successfully and return the updated class (4 ms)

Edge Cases

v should return a 400 error if the class ID is invalid (1 ms)

v should return a 400 error if the update data is invalid (1 ms)

v should handle unexpected errors gracefully (1 ms)

Test Suites: 1 passed, 1 total

Tests: 4 passed, 4 total

Snapshots: 0 total

Time: 2.016 s

Ran all test suites matching /updateClass.early.test.js/i.
```

3) Get Classes

```
pass src/controller/class.controller.early.test/getClasses.early.test.js

getClasses() getClasses method

Happy Paths

v should return an array of classes when valid codes are provided (20 ms)

Edge Cases

v should return an empty array when no codes are provided (3 ms)

v should return an array with null values for non-existent class codes (8 ms)

v should handle errors gracefully and return a 400 status with an error message (2 ms)

Test Suites: 1 passed, 1 total

Tests: 4 passed, 4 total

Snapshots: 0 total

Time: 2.144 s
```

For Class Controller:



[4] Lesson Controller

1)Insert Lesson

```
Tests: 1 failed, 3 passed, 4 total

Snapshots: 0 total

Time: 2.271 s

Ran all test suites matching /insertLesson.early.test.js/i.
```

2) Get Lesson

```
Tests: 4 passed, 4 total
Snapshots: 0 total
Time: 1.873 s
```

3) Update Lesson

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 2.132 s
Ran all test suites matching /updateLesson.early.test.js/i.
```

4) Delete Lesson

```
Tests: 1 Tailed, 1 passed, 2 total
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 1.65 s
```

For lesson controller file:



[5]Assignment Controller

1) Insert Assignment

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 1.756 s
Ran all test suites matching /insertAssignment.early.test.js/i.
```

2) Get Assignment

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 1.702 s
Ran all test suites matching /getAssignments.early.test.js/i.
```

3) Update Assignment

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 1.629 s
Ran all test suites matching /updateAssignment.early.test.js/i.
```

4) Submit Assignment

```
Tests: 4 passed, 4 total
Snapshots: 0 total
Time: 1.671 s
Ran all test suites matching /submitAssignment.1.early.test.js/i.
```

5) Delete Assignment

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 1.617 s
Ran all test suites matching /deleteAssignment.early.test.js/i.
```

6) Submit Work

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 1.73 s
Ran all test suites matching /submitWorkDetails.1.early.test.js/i.
```

For Assignment controller file:



[6] Announcement Controller

1) Create Announcement

```
Tests: 4 passed, 4 total
Snapshots: 0 total
Time: 2.222 s
Ran all test suites matching /createAnnouncement.early.test.js/i.
```

2) Get Announcement

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 1.694 s
Ran all test suites matching /getAnnouncement.early.test.js/i.
```

3) Update Announcement

```
Tests: 5 passed, 5 total
Snapshots: 0 total
Time: 2.155 s
Ran all test suites matching /updateAnnouncement.early.test.js/i.
```

4) Delete Announcement

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 1.868 s
Ran all test suites matching /deleteAnnouncement.1.early.test.js/i.
```

For announcement controller file:





[7] Material Controller

1) Insert Material

```
Tests: 4 passed, 4 total
Snapshots: 0 total
Time: 1.704 s
Ran all test suites matching /insertMaterial.early.test.js/i.
```

2) Get Material

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 1.699 s
Ran all test suites matching /getMaterial.early.test.js/i.
```

3) Update Material

```
Tests: 2 failed, 2 passed, 4 total
Snapshots: 0 total
Time: 2.072 s
Ran all test suites matching /updateMaterial.early.test.js/i.
```

4) Delete Material

```
Tests: 3 passed, 3 total
Snapshots: 0 total
Time: 1.701 s
Ran all test suites matching /deleteMaterial.early.test.js/i.
```

For material controller file:



[8] Resource Controller

1)Insert Resource

```
PASS
src/controller/resource.controller.early.test/insertResource.early.test.js
insertResource() insertResource method
Happy Paths
✓ should insert a resource successfully when lesson exists (5 ms)
Edge Cases
✓ should return 404 if lesson is not found (5 ms)
✓ should return 400 if resource saving fails (1 ms)
✓ should handle unexpected errors gracefully (1 ms)

Test Suites: 1 passed, 1 total
Tests: 4 passed, 4 total
Snapshots: 0 total
Time: 1.602 s
Ran all test suites matching /insertResource.early.test.js/i.
```

2) Update Resource

```
PASS src/controller/resource.controller.early.test/updateResource.early.test.js

updateResource() updateResource method

Happy Paths

✓ should update a resource successfully and return the updated resource (4 ms)

Edge Cases

✓ should return a 400 error if the resource ID is invalid (1 ms)

✓ should return a 400 error if validation fails (1 ms)

✓ should handle unexpected errors gracefully (1 ms)

Test Suites: 1 passed, 1 total

Tests: 4 passed, 4 total

Snapshots: 0 total

Time: 1.566 s
```

3) Get Resource

4) Delete Resource

```
Tests: 1 failed, 2 passed, 3 total
Snapshots: 0 total
Time: 1.616 s, estimated 2 s
Ran all test suites matching /deleteResource.early.test.js/i.
```

For Resource Controller File

Tests: 1 failed, 14 passed, 15 total Snapshots: 0 total Time: 2.53 s Ran all test suites matching /resource.controller.early.test/i. Statements Functions Lines 100% 40/40 100% 8/8 100% 6/6 100% resource.controller.js

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