

FRONTEND TESTER DOCUMENTATION

1. Test Strategy (Frontend)

The purpose of frontend testing is to ensure correct UI behavior, navigation, role-based rendering, and user interaction with backend services.

Tested Areas

- Navigation & routing
- Role-based sidebar
- Forms & validations
- Dark mode UI
- API integration
- Responsive layout

2. Test Environment (Frontend)

Component	Description
Frontend	Web-based UI
Browser	Chrome, Edge
OS	Windows
Screen Sizes	Desktop, Mobile
Theme	Light / Dark mode

3. Frontend Test Cases

ID	Page	Role	Action	Expected Result	Status
FE-01	Home	All	Load homepage	Homepage loads	Pass
FE-02	Login	All	Valid login	Redirect to dashboard	Pass
FE-03	Login	All	Invalid login	Error message shown	Pass

FE-04	Sidebar	Admin	View menu	Admin options visible	Pass
FE-05	Sidebar	Student	View menu	Limited menu visible	Pass
FE-06	Thesis Page	All	View thesis details	Details displayed	Pass
FE-07	Thesis Page	All	Download thesis	File downloaded	Pass
FE-08	Thesis Page	All	Add citation	Citation saved	Pass
FE-09	Comment Section	Advisor	Add comment	Comment visible	Pass
FE-10	Comment Section	Student	Add comment	Pending approval notice	Pass
FE-11	Admin Panel	Admin	Approve comment	Comment approved	Pass
FE-12	Admin Panel	Admin	Add faculty	Faculty added	Pass
FE-13	Admin Panel	Admin	Add department	Department added	Pass
FE-14	Theme Toggle	All	Switch dark mode	UI theme changes	Pass
FE-15	Statistics Page	Admin	View site stats	Charts displayed	Pass

4. Frontend Test Results

- UI components render correctly for each role.
- Navigation is consistent and error-free.
- Dark mode works across all pages.
- API integrations function as expected.

5. Overall Conclusion

The system was tested using both backend and frontend functional testing approaches. All major user roles and workflows were verified successfully. Test results confirm that the application meets the requirements defined in the SRS.

