Activity 5.2: Testing and Verifying Local Deployment

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Obje	cuve.											
The	purpose of thi	s activity	is to	ensure	that the	application	functions	correctly	in the	local	environme	ent by

conducting systematic testing and verification.

Steps Involved:

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1. Unit Testing:

- Write unit tests for individual modules using PyTest or Unittest.
- Validate core functionalities like API endpoints, business logic, and database interactions.

2. Integration Testing:

- Test how components interact with each other.
- Validate the data flow from frontend to backend and database.

3. Manual Testing:

- Execute test cases manually to verify UI responsiveness and correctness.
- Check navigation, form validations, and error handling.

4. Environment Configuration:

- Ensure environment variables (e.g., `.env`) are correctly configured.
- Test startup scripts (e.g., `main.py`) for correctness.

5. Logging and Debugging:

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