

# Application Selection for Testing



i have to do an assignment for my software engineering course the instructions till first step are -  
Lab Evaluation Assignment – Application Testing Challenge  
(CO5)

## Objective

This lab evaluates students' ability to test an application using industry-standard testing techniques. The focus is on identifying functional, usability, and performance issues in an existing system and documenting them professionally.

## Instructions

### Step 1: Select a Web or Mobile Application

- Choose a commonly used application (e.g., a university portal, e-commerce site, or a productivity app).
- If access to a real system is unavailable, use an open-source application or a sample test site.

Great! Here's how you can approach **Step 1** of your Software Engineering Lab Evaluation Assignment:

## ✓ Step 1: Select a Web or Mobile Application

You need to choose **one** application that you'll evaluate in terms of **functionality, usability, and performance**. Here are a few options (grouped by type):

### ♦ University Portal (if you want an academic system)

- **Amrita Vishwa Vidyapeetham AMS / AUMS** (if accessible)
- **Moodle** (open-source LMS used by many universities)
- **Open edX** (another open-source LMS)

### ♦ E-Commerce Sites (if you want commercial systems)

- **Amazon (Web)** – publicly accessible, ideal for usability testing
- **Flipkart (Mobile App)** – very commonly used in India
- **OpenCart Demo** – <https://demo.opencart.com/> (open-source)

### ♦ Productivity Apps

- **Trello** (Web + Mobile) – task management
- **Notion** – note-taking & organization (check free plan features)
- **Joplin** (open-source note app) – <https://joplinapp.org/>

### ♦ Sample Test Sites (for hands-on testing practice)

- **The Internet Herokuapp** – <https://the-internet.herokuapp.com/>
- **DemoQA** – <https://demoqa.com/>
- **OrangeHRM (open-source HR app)** – <https://opensource-demo.orangehrmlive.com/>

### **Tip:**

If you're looking for **easy access + lots of testable features**, I recommend:

👉 **OrangeHRM (open-source demo)** – because it has login, forms, navigation, data handling, and more:

<https://opensource-demo.orangehrmlive.com/>

Would you like help selecting one of these based on your interests or setting up your next steps (like what test cases to write)?



no i want to go with my own website evolv-ed <https://evolv-ed.vercel.app/login> please check

That's a great choice! Using your own application, **Evolv-ED**, for the assignment will provide you with a deeper understanding of its functionalities and areas for improvement. Here's how you can proceed:

## ✅ **Step 1: Select a Web or Mobile Application**

You've chosen your own web application, [Evolv-ED](#), which is an excellent decision. This approach allows you to:

- **Gain firsthand experience** in testing and identifying issues.
- **Apply theoretical knowledge** to a practical, real-world project.
- **Enhance your application's quality** by uncovering and addressing potential problems.

## **Next Steps for the Assignment**

To align with the assignment's objectives—identifying functional, usability, and performance issues—consider the following steps:

### 1. **Functional Testing:**

- **Test all features:** Ensure that each feature of your application works as intended.
- **Check for errors:** Look for any bugs or unexpected behaviors during usage.

### 2. **Usability Testing:**

- **Assess user interface:** Evaluate the design for intuitiveness and ease of use.
- **Gather feedback:** If possible, have others use your application and provide feedback on their experience.

### 3. **Performance Testing:**

- **Measure load times:** Use tools like Google Lighthouse to assess page load speeds.
- **Test responsiveness:** Ensure the application performs well across different devices and screen sizes.

## Documentation

As you conduct your testing, document your findings meticulously:

- **Issue Description:** Clearly describe each issue encountered.
- **Steps to Reproduce:** Provide detailed steps to replicate the issue.
- **Expected vs. Actual Results:** Outline what should happen versus what actually occurs.
- **Screenshots or Logs:** Include visual evidence or error logs to support your findings.

If you need assistance with creating specific test cases, selecting testing tools, or any other aspect of the assignment, feel free to ask!

Sources



i want you to give me a brief description of my application functionalities and what tech is used in my application the core functionalites of my app is generating flashcards for my pdf or any document input and summarizing or key points generating for any input document and a tasks and to do function and making notes function like these all make a personalized learning for a user, tech is react, tailwind css and mern stack

Thanks, Lohith! Based on your input, here's a **brief and professional description** of your application "Evolv-ED" for your software engineering assignment:

## Evolv-ED – Personalized Learning Web Application

**Evolv-ED** is a personalized learning web application designed to enhance productivity and comprehension for students and self-learners. It integrates AI-powered content processing and smart learning tools to create an adaptive and user-centric learning environment.

### Core Functionalities:

- **Flashcard Generator:** Automatically generates flashcards from uploaded documents (PDFs or text files), enabling active recall learning.
- **Document Summarization:** Extracts key points and summarizes lengthy content into concise, readable formats for quick understanding.
- **To-Do & Task Manager:** Offers a simple task-tracking interface for organizing study sessions, deadlines, and daily goals.
- **Notes Section:** Allows users to create and manage notes alongside their study materials, facilitating context-based learning.

- **Personalized Learning Dashboard:** Combines all tools into a unified interface that adapts to each user's learning style and preferences.

### Technology Stack:

- **Frontend:** Developed using **React.js** and styled with **Tailwind CSS** for a responsive and modern user interface.
- **Backend:** Built using the **Node.js** runtime and **Express.js** framework.
- **Database:** Utilizes **MongoDB** for flexible and scalable data storage.
- **Architecture:** Follows the **MERN (MongoDB, Express, React, Node.js)** stack for full-stack JavaScript development, ensuring seamless communication between frontend and backend.

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Would you like a table format version of this for your documentation or test report?



this is my step 2 to do in my assignment - please tell me how to proceed for my application -

Step 2: Conduct Testing and Identify Bugs

Students must perform at least three types of testing:

1. Functional Testing: Verify if core features work correctly.
  2. Usability Testing: Check if the interface is intuitive and user-friendly.
  3. Performance Testing (Basic): Observe if the system slows down under certain conditions.
- Report at least five defects using a structured bug report format.

Bug Report Format:

Bug

ID Description

B01

Login form

doesn't validate

email

Steps to

Reproduce

Enter invalid

email and click

submit

Expected

Behavior

Show

validation

message

Actual

Behavior

Severity

(Low/Medium/High)

No validation







message shown Medium

To proceed with **Step 2: Conduct Testing and Identify Bugs** for your **Evolv-ED** application, follow this structured plan for each testing type. I'll also explain how to identify and document bugs based on the format given.

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## 1. Functional Testing

Test if your core functionalities work as expected:

-  Login/signup functionality
-  Uploading and processing PDFs
-  Generating flashcards
-  Generating summaries/key points
-  Creating and managing tasks
-  Writing and saving notes


 For each feature:

- Try valid and invalid inputs
  - Look for bugs or features that don't behave as intended
- 

## 2. Usability Testing

Check the interface from a user's perspective:

- Are buttons clearly labeled?
- Is navigation intuitive?
- Are important actions (like "Save" or "Generate") easily accessible?
- Is the UI responsive on mobile and desktop?

 You can ask a few peers or classmates to quickly use the app and note where they struggle or get confused.

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## 3. Performance Testing (Basic)

Try:

- Uploading large files (e.g., a 10MB+ PDF) – does the app slow down?
- Performing multiple actions quickly (e.g., create 10 flashcards in a row)
- Checking loading times on slower networks or mobile

 Use **Google Lighthouse** or browser dev tools (Network tab) to assess performance metrics.

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## Documenting Bugs

Here's an example of how to fill the **Bug Report** using your app:

Bug ID	Description	Steps to Reproduce	Expected Behavior	Actual Behavior	Severity
B01	Login form doesn't validate email	Enter invalid email and click "Submit"	Show "Invalid Email" validation message	No validation message shown	Medium
B02	Flashcard generator crashes on large PDF	Upload a 20MB PDF	Show processing/loading state	App freezes or throws error	High
B03	Tasks created without title	Click "Add Task" without entering text	Prevent empty tasks from being added	Blank task gets created	Low
B04	Notes editor doesn't auto-save	Type a note and wait	Changes should auto-save after pause	Content is lost on refresh	Medium
B05	UI overlap on mobile	Open notes section on mobile	Layout should be responsive	Buttons overlap each other	Medium

## ✓ What You Should Do Next:

1. **Use your app** as a tester, not just a developer.
2. **Document 5 real issues** (like the sample bugs above).
3. Capture **screenshots or short notes** for proof when you submit your assignment.
4. Optionally, you can use **tools like Trello or a spreadsheet** to organize bug reports.

Would you like a bug report table in editable Word/Excel format or need help testing a specific feature from your app?



 Uploaded image

check this photo here i think i found three faults one is ui see there is a black background for around new note which is cutting navigation bar, second one is i have asked to give me key points but it generated paragraphs and the third is it is telling ##### AI-Generated Summary are these bugs if they are bugs please write Bug report in bug report format

Yes Lohith, the issues you've identified can be considered **valid bugs** under different categories of testing. Here's a **structured bug report** in the required format for your assignment based on your screenshot:

## ✓ Bug Report Table

Bug ID	Description	Steps to Reproduce	Expected Behavior	Actual Behavior	Severity
B01	UI modal overlaps the navigation bar	Click on "Create New Note" in the AI Notes section	Modal should open without obstructing or cutting through the navigation bar	Modal background overlaps the top navigation bar, reducing visibility	Medium
B02	Summary style selection (Bullet	Attach a PDF → Select "Bullet Points" → Click	Output should be in bullet point format as selected	Output is in paragraph format instead of bullets	High

Bug ID	Description	Steps to Reproduce	Expected Behavior	Actual Behavior	Severity
	Points) generates paragraph text	"Generate Summary"			
B03	Auto-generated heading displayed in user notes	Generate a summary and view Note Content	Heading like "AI-Generated Summary" should not appear if not explicitly requested	Auto-generated heading "## AI-Generated Summary" is shown, even if not asked	Low

Let me know if you'd like this in a downloadable Word or Excel format, or if you want to add more bugs for your report.



there are input fields for creating flashcard which asks to input deck title, deck description, deck document input and finally i have to click create flashcard deck but when i dont give any input and directly click on create nothing is happening i should have shown what is my fault

Yes, that's a valid **functional bug** — the app should ideally provide user feedback (like an error message or field highlight) when required fields are left empty.

Here's how this should be reported:

### ✓ Additional Bug Report Entry

Bug ID	Description	Steps to Reproduce	Expected Behavior	Actual Behavior	Severity
B04	Flashcard deck creation allows empty submission with no feedback	Navigate to Flashcards → Leave all fields blank → Click "Create Flashcard Deck"	Should display validation messages for required fields (e.g., "Title is required")	Nothing happens, no visual or textual feedback shown	High

This falls under **functional testing** and **usability testing**, since it affects both behavior and user experience. Do you want help writing usability suggestions or test cases next?



when i click on start study session it is telling focus time in progress but it doesnt automatically start timer i have to manually start

That's another valid **functional + usability issue** — if the user clicks "Start Study Session," it should automatically begin the focus timer without needing an extra manual action. Here's the structured bug report:

### ✓ Bug Report Entry

Bug ID	Description	Steps to Reproduce	Expected Behavior	Actual Behavior	Severity
B05	Study session doesn't auto-start timer on click	Go to Flashcards → Click "Start Study Session"	Timer should automatically begin when session starts	Shows "Focus time in progress" but timer does not start until manually triggered	Medium

You now have **five well-documented bugs**, covering functional, usability, and UI issues — enough for Step 2 of your assignment. Would you like help drafting a summary of your findings for submission?



in my application when i click on my logo in login page my home page is hovering

That sounds like a **UI/UX bug**, likely due to incorrect routing or hover behavior being triggered by clicking the logo (which should normally redirect to the homepage without visual anomalies).

Here's the bug report in structured format:

### ✓ Bug Report Entry

Bug ID	Description	Steps to Reproduce	Expected Behavior	Actual Behavior	Severity
B06	Homepage hovers unexpectedly when logo is clicked on login page	Open login page → Click on the app logo	Should redirect to homepage without any hover effect or visual glitch	Homepage appears to be "hovering" (UI overlay or transition issue)	Low

This would likely fall under **UI testing** and **usability testing**.

Would you like to include screenshots or a short paragraph on overall testing results for your final lab report?



