toggle
made for free at toggle.it

Lab 2 - Checklists

a. Functional Testing

Creating tasks

Press create button
- Valid
  - Button displayed
  - Task created
- Invalid
  - Button not displayed
  - Task not created

Write a title and description
- Write by a voice recording
  - Valid
    - Can record a voice
    - Can select voice just created or from device
  - Invalid
    - Cannot record a voice
    - Cannot select voice just created or from device
- Write by keyboard
  - Valid
    - Can enter text
  - Invalid
    - Can't enter text

Edit Tast content
- Valid
  - Can edit font
    - Color
    - Size
    - Style
  - Can edit content and display successful edit notification
- Invalid
  - Can't edit font and content
  - Not display successful edit notification

Setup deadline for task
- Valid
  - There must be a time selection panel to select the time
  - The time to set must be after the time of task creation
  - Time zone can be setup
- Invalid
  - In contrast to the valid cases

Submit Task
- Valid
  - Task is displayed on the view screen
- Invalid
  - Task not displayed on the view screen

Setting priorities

Set priority to high, medium, or low
- Valid
  - Display priorities to select
  - Priority is displayed correctly
- Invalid

Changed priority after it has been set
- Valid
  - The priority level has been changed compared to before
- Invalid
  - The priority level must not change from before

Sorted by priority in the task list
- Valid
  - The priority levels are arranged in the order that the user chooses
- Invalid
  - Displayed in wrong order
  - Display nothing

Receiving notifications

Receives notifications when a new task is assigned to them
- Valid
  - Notification displayed
  - Displays the correct content of the action
- Invalid
  - Not display notification
  - Display wrong content

Receives notifications when a task is updated or completed or deleted
- Valid
  - Notification displayed
  - Displays the correct content of the action
- Invalid
  - Not display notification
  - Display wrong content

Receives notifications when a task is due soon or overdue
- Valid
  - Notification displayed
  - Notification at the set time
  - Notification correct content of that task
- Invalid
  - Not display notification
  - Notification different from the set time (slower or earlier)
  - Display wrong content

Authentication

Register

Enter account information
- Valid
  - Can enter
- Invalid
  - Can't enter

Press the Register button
- Validate
  - Information field is null
    - Valid
      - Notify the user to enter that field
    - Invalid
      - No notifications
  - Information is fulfill
    - Information is correct
      - Valid
        - Display a green check mark in the correct field
      - Invalid
        - Not display the green mark
        - Notify the error
    - Information is wrong
      - Valid
        - Displays red and an X in the wrong field
        - Notify the user of re-entering the wrong field
      - Invalid
        - Not display red
        - Not notification of re-enter
- Navigation
  - Validate is correct
    - Valid
      - Redirect to Login page
      - Notice of successful registration
    - Invalid
      - Not redirect to Login page
      - No notification of successful registration
  - Validate is wrong
    - Valid
      - Redirect to Register page
      - Notice error information
    - Invalid
      - Not redirect to Register page
      - Redirect to other page
      - Not notice error information

Login

Enter username & password
- Valid
  - Can enter
- Invalid
  - Cannot enter

Press the Login button
- Validate
  - Information field is null
    - Valid
      - Notify the user to enter that field
    - Invalid
      - No notifications
  - Information field is fulfill
    - Information is correct
      - Valid
        - Display a green check mark in the correct field
      - Invalid
        - Not display green check mark
    - Information is incorrect
      - Valid
        - Displays a red X in the wrong field
        - Describes the error in detail below that field
      - Invalid
        - Not display red X
        - Not describes the error in detail below that field
- Navigation
  - Validate is correct
    - Valid
      - Redirect to Home page
      - Notice of successful login
    - Invalid
      - Not redirect to Home page
      - No notification of successful login
  - Validate is wrong
    - Valid
      - Redirect to Login page
      - Notice error information
    - Invalid
      - Not redirect to Login page
      - Redirect to other page
      - Not notice error information

b. Usability Testing

Task Flows
- Evaluate ease of use in task creation and priority setting

Navigation
- Assess intuitiveness of app navigation
- Confirm ease of finding and accessing features

Error handling
- Evaluate clarity of error messages
- Confirm user-friendly error recovery options

Cusstomization Options
- Assess options for cusstomizing app settings
- Confirm user control over notifications

c. Compatibility Testing

- Tested compatiblity when the app was running on **iOS 10** to **iOS 17**
  - Running stable
  - Runs unstable, crashes,...
- Tested compatibility when the app was running on **Android 7** to **Android 14**
  - Running stable
  - Runs unstable, crashes,...
- In **same Android version**, tested compatiblity when app was running on device from **SamSung, Xiaomi, Oppo,...**
  - Running stable
  - Runs unstable, crashes,...
- In **same brand**, tested compatibility when app was running on device **normal devices or flip phone**.
  - Running stable
  - Runs unstable, crashes,...

d. GUI Testing

General UI Elements
- Verify consistent and appealing design
- Confirm proper usage of colors, fonts, and icons

Navigation
- Confirm correct links and transitions
- Test intuitive and user-friendly navigation

Task Creation
- Confirm error messages for invalid data
- Test task creation form input fields and labels

Priority Setting
- Confirm correct sorting based on priority
- Verify functionality of setting task priorities

Notification System
- Test display of notifications for tasks
- Confirm customization of notification settings

e.Cross-OS Testing

Android Testing
- Install and launch the app on an Android device
- Verify basic functionalities
- Check for layout or display issues.

IOS Testing
- Install and launch the app on an iOS device
- Confirm basic functionalities
- Inspect for layout or display inconsistencies.

f. Database Testing

- Test the size and naming convention of the database fields
- Store, retrieve, update and delete **data** in the database
- Data works properly on save and database after submitting each page
- Data displayed on the front-end is the same as on the back-end
- Check the database server configurations as per the business requirements

g.Performance Testing

- **Response Time:** Evaluate app response time for task creation
- **Load Testing :** Assess app's performance under varying loads
- **Resource Utilization** : Monitor CPU, memory, and battery usage during usel
- **Network Performance:** Test app behavior under different network speeds

h. Security Testing

- Test **vulnerabilities** in used-library
  - <3 vulnerabilities
  - =>3 vulnerabilities
- Show **error code and error detail** for user
  - Correct code and detail
  - Inorrect code and detail
- Test ability **report error info** to server when occur error
- Test for **SQL Injection**
- Confirm using encrypted protocol such as: **HTTPS**
- Test for **session management**

i. Accessibility Testing

Text Alternatives
- Disable images and check alternative text visibility

Color and Contrast
- Assess color usage and contrast

Navigation and Keyboard Accessibility
- Test keyboard navigation
- Confirm all interactive elements are reachable and usable

Task Reader Compatibility
- Enable screen reader functionality
- Ensure all critical information is accurately conveyed