

CAB302 Software Development: Project GUI Design

Semester 2, 2025

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Low Fidelity Design

Wednesday, 26 March 2025

Designs by Monica

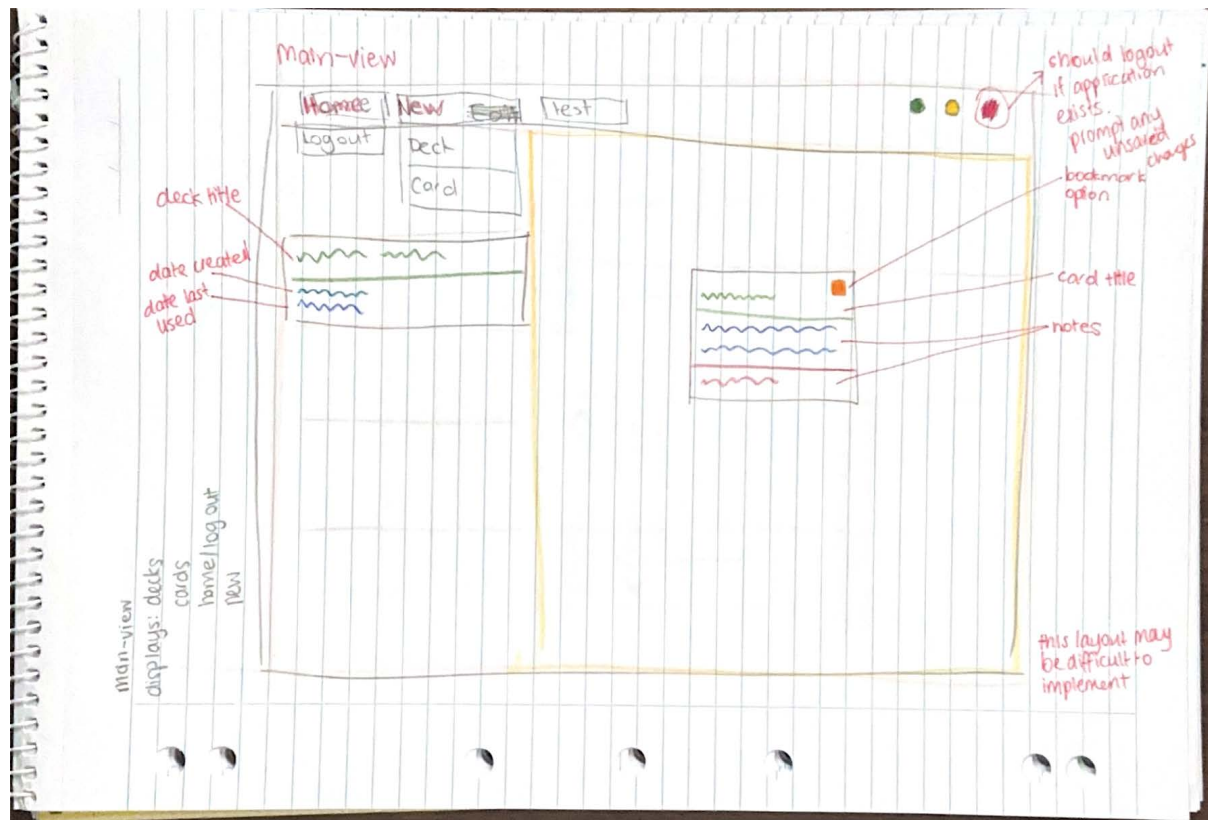


Figure 1: Main Screen Design

- Decks and cards will be displayed in a **List View** on the left side of the interface.
- The right side of the interface will show:
 - A description,
 - A list of cards, or
 - An editable window.
- Switching between viewing decks or cards will always retain a **List View** on the left.
- A **menu bar** at the top will provide options for:
 - Entering test mode,
 - Viewing, editing, or creating decks and cards,
 - Exiting or logging out of the application.

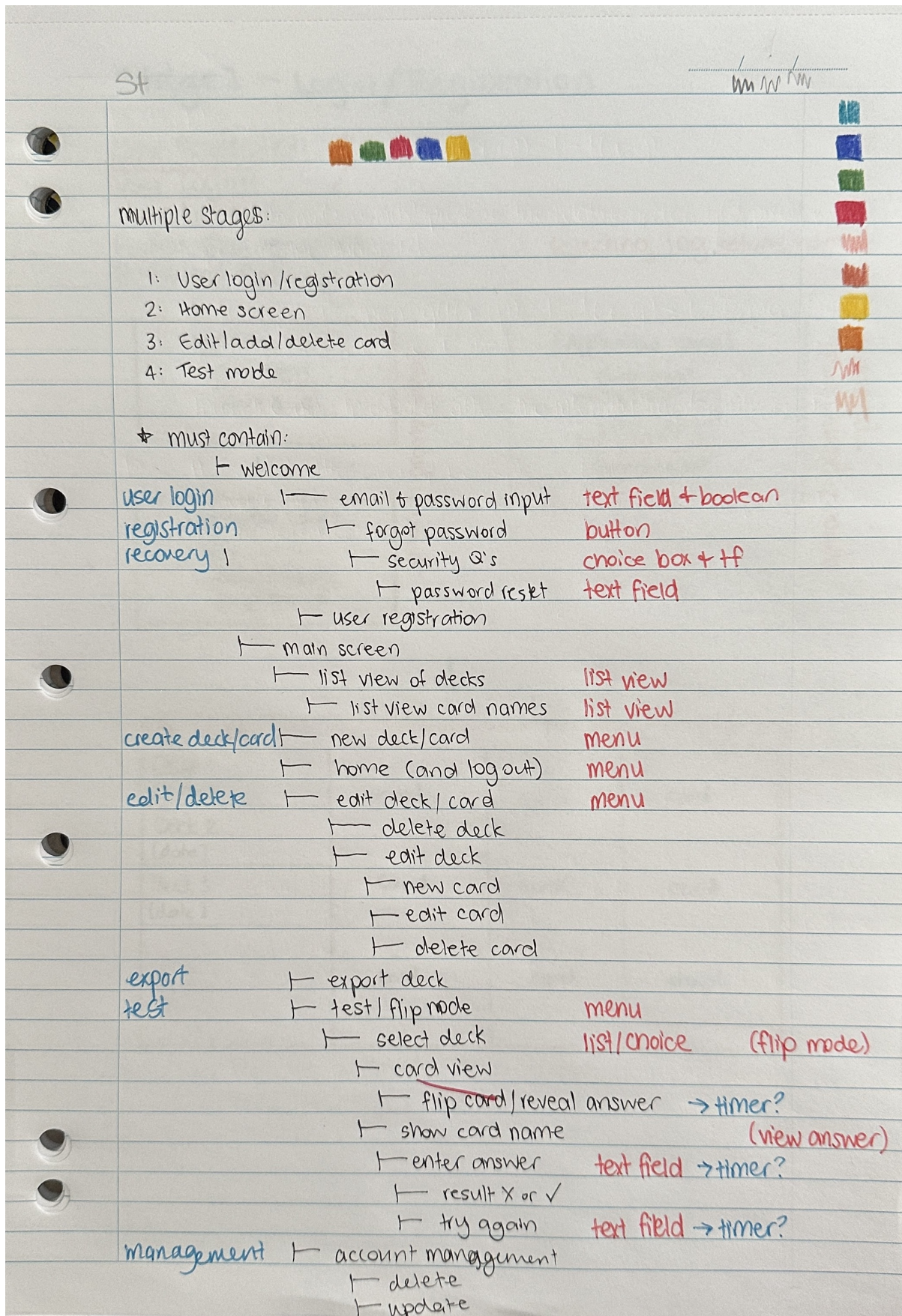


Figure 2: Stages of the Application

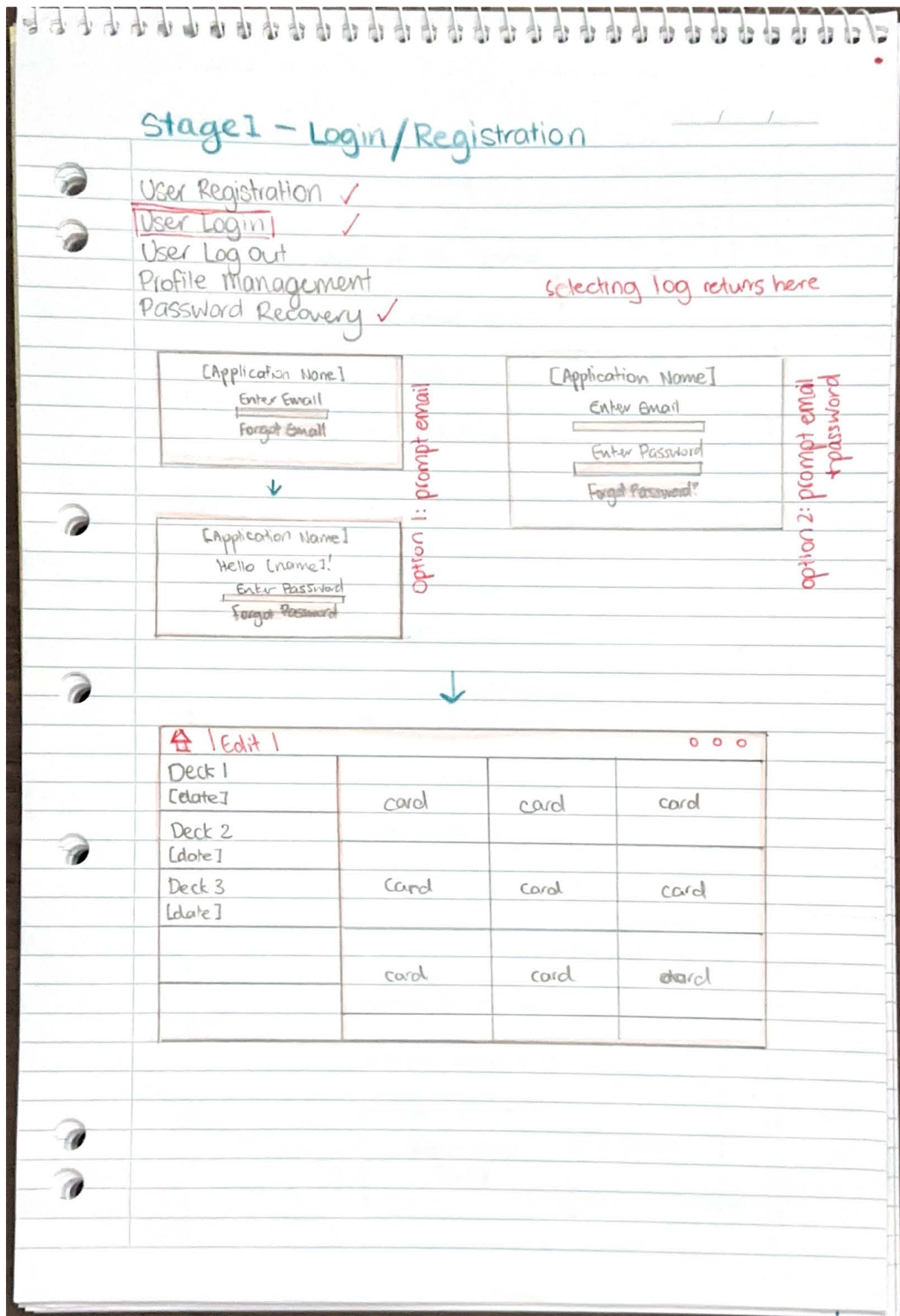


Figure 3: Login windows upon starting the application

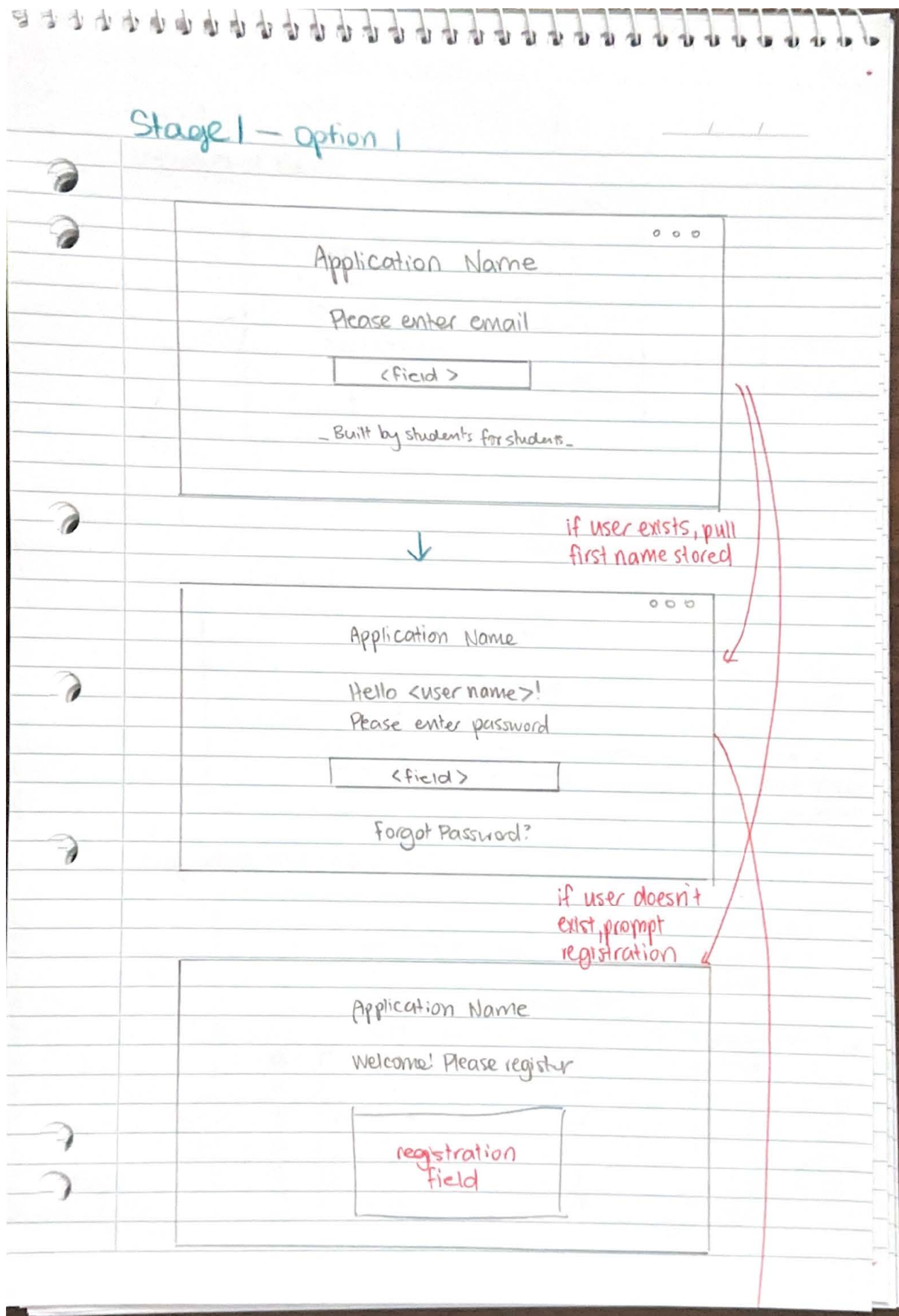


Figure 4: Details of login windows and registration steps

registration field

Email:

Name:

Password:

must contain:

1.

2.

if user exists but forgets password

Application Name

Uh-oh! Please fill out security question for password reset

same choice box as reg

field to input answer
→ do we make case sensitive?

input security questions

Application Name

Please complete three (3) security questions:

Q

A

Q

A

Q

A

Security q's should be a choice box

Answers should be a field

Figure 5: Details of login windows and registration steps (cont.)

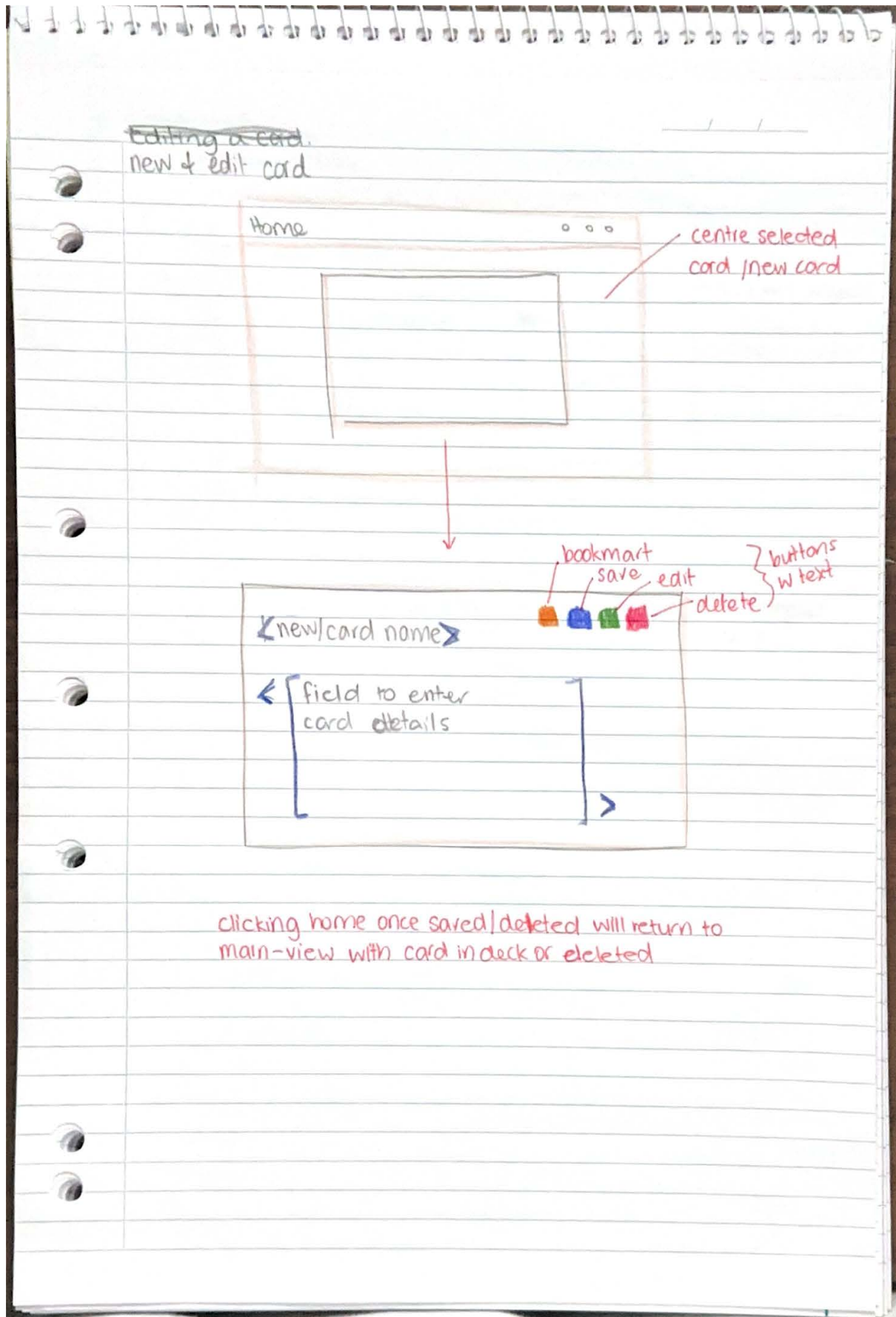


Figure 6: Card Design (applicable for new card or test mode)

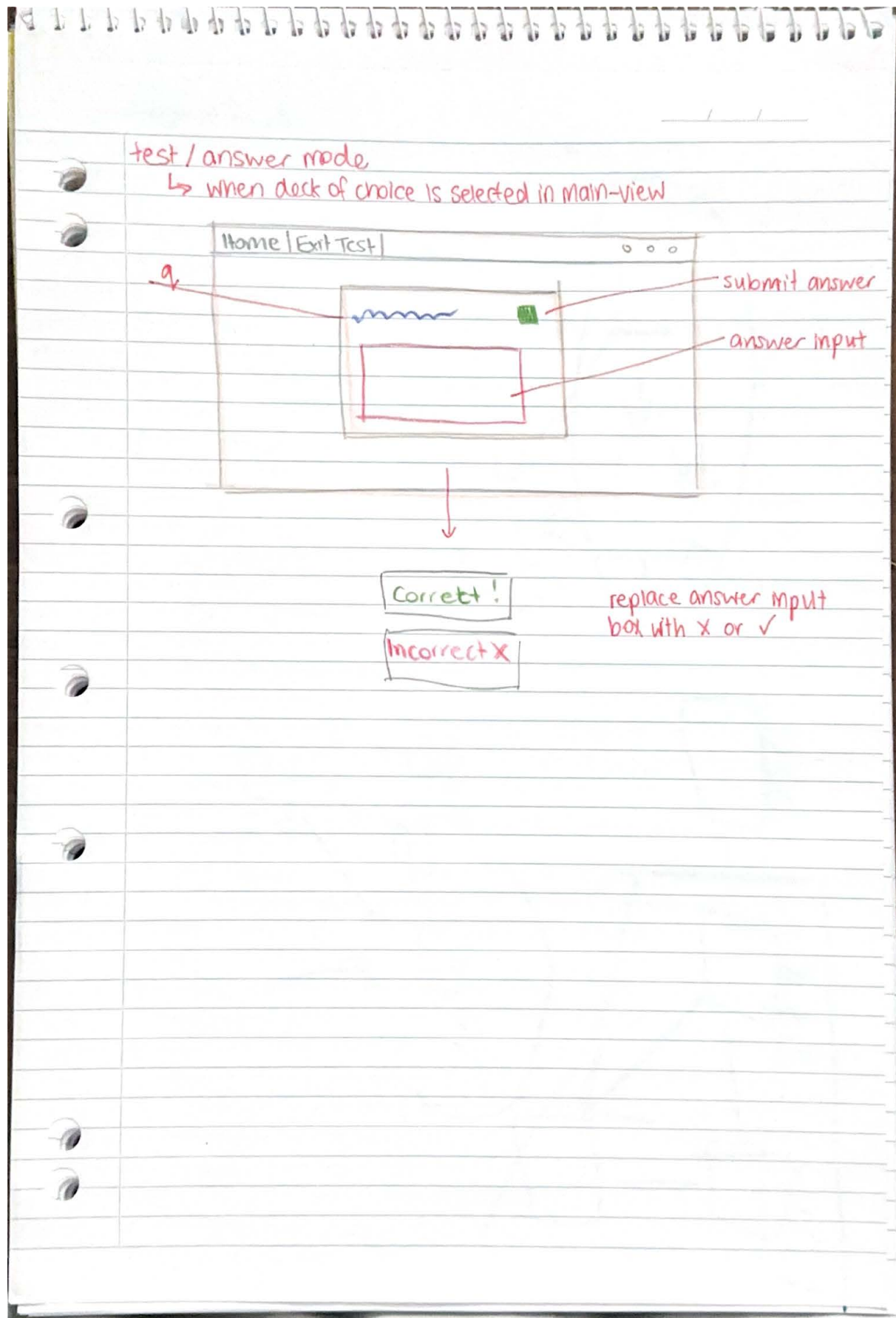


Figure 7: Test mode design

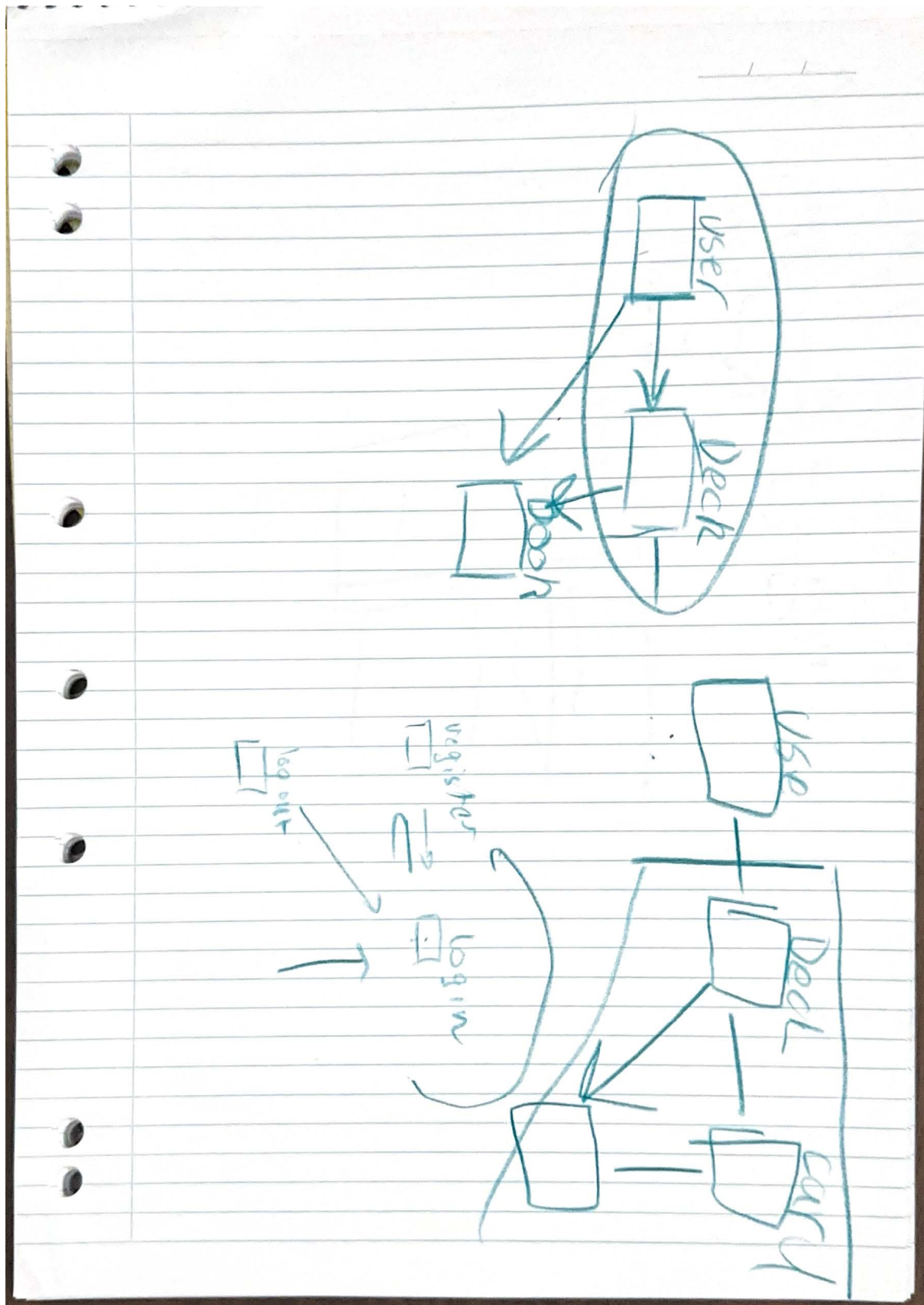


Figure 8: Miscellaneous design notes from Meeting 3

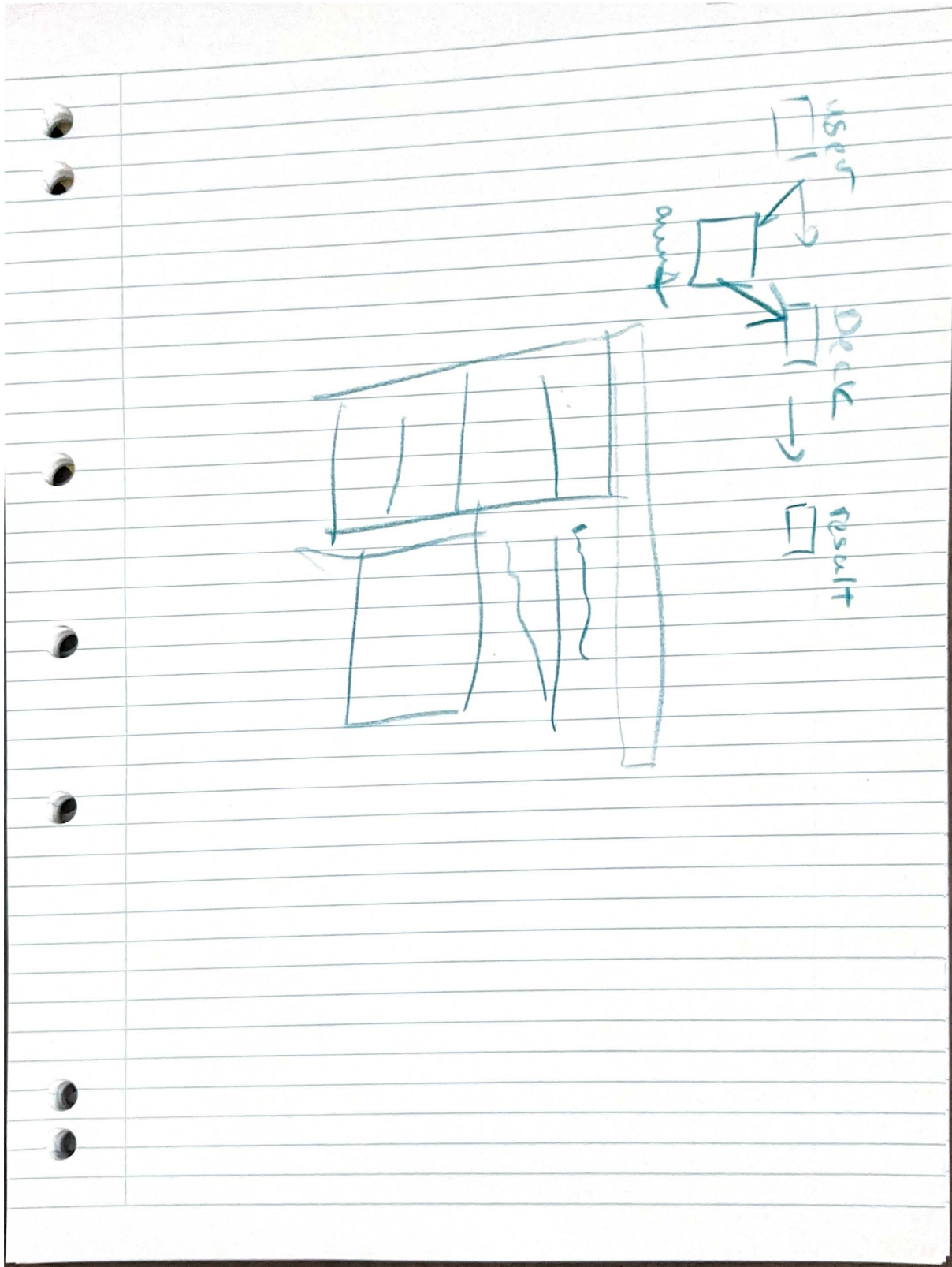


Figure 9: Miscellaneous design notes from Meeting 3 (cont.)

Mid Fidelity Design

Tuesday, 8 April 2025

Designs by Monica

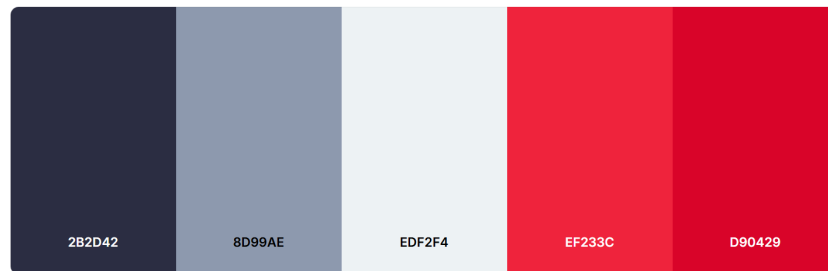


Figure 10: Graphical colour scheme for the application

Colour Palette Notes

- A defined colour palette supports visual clarity, accessibility, and mode distinction within the application interface.
- The base design uses cool grey tones:
 - **Background:** #edf2f4 – a clean, neutral backdrop.
 - **Primary text:** #2b2d42 – dark slate, strong contrast.
 - **Accents:** #8d99ae – a balanced grey-blue for highlights and UI elements.
- Red tones are reserved for test mode and incorrect answers:
 - #ef233c and #d90429 – bold reds used sparingly for emphasis and error states.
- A complementary green is required to indicate correct responses with similar visual weight.
- Recommended green: #4caf87
 - Contrasts clearly with the background.
 - Tonally balanced with existing greys and reds.
 - Suggests calm correctness without being overly saturated.

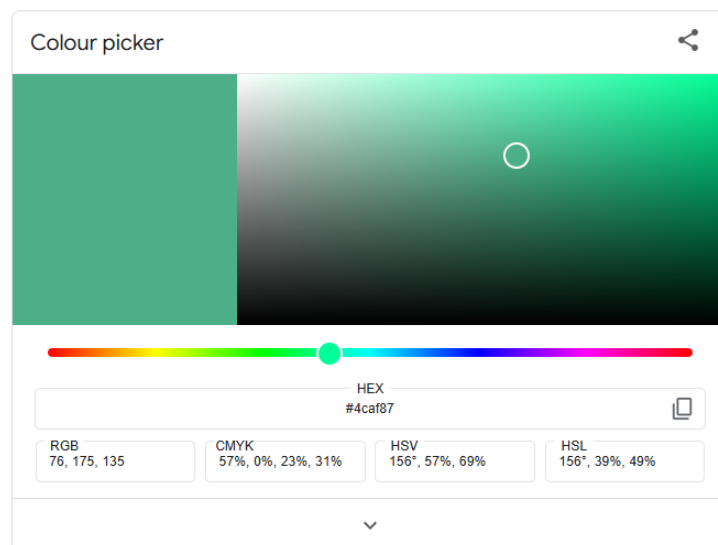


Figure 11: Proposed green accent colour: #4caf87

Some existing designs in JavaFX have already been created, excluding any colours or final design tweaks.

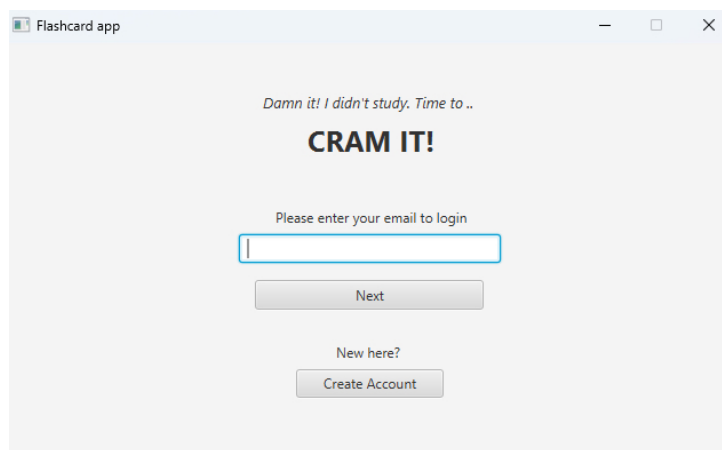


Figure 12: Initial welcome/opening screen for email or new account

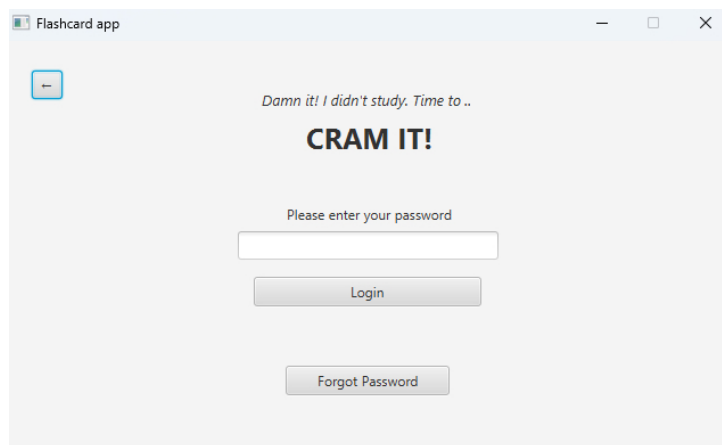


Figure 13: Second welcome/opening screen for password

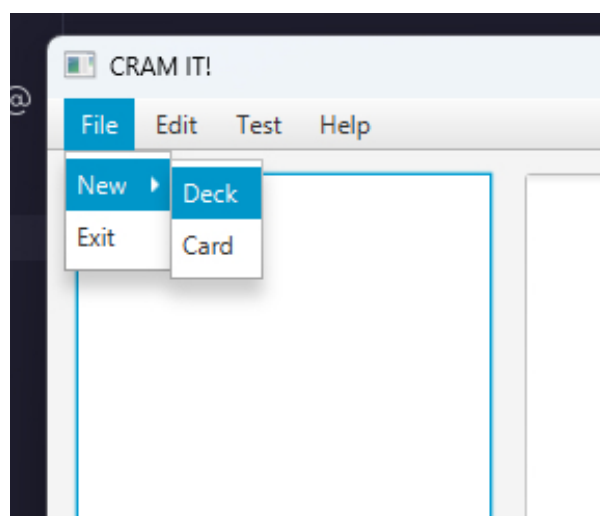


Figure 14: Menu bar design with nested options

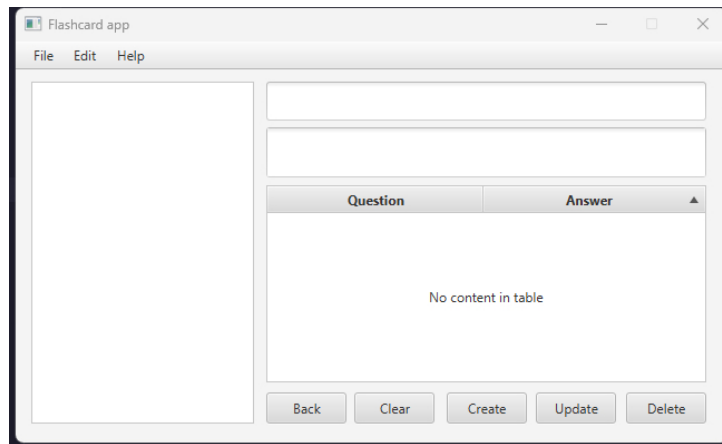


Figure 15: Test deck view design with List View on the left and deck title, description, and card list on the right

- **Potential applications of the colour palette include:**
 - Differentiating between test and regular modes.
 - Visually grouping UI components (e.g., deck lists, card details).
 - Indicating status feedback (e.g., correct vs incorrect).
 - Enhancing user engagement through aesthetic consistency.
- The palette has been applied in the preliminary deck view design.
- Colour design will extend to other areas such as the card view and main dashboard.
- Implementation of colour styling may be limited by the capabilities of JavaFX CSS support.

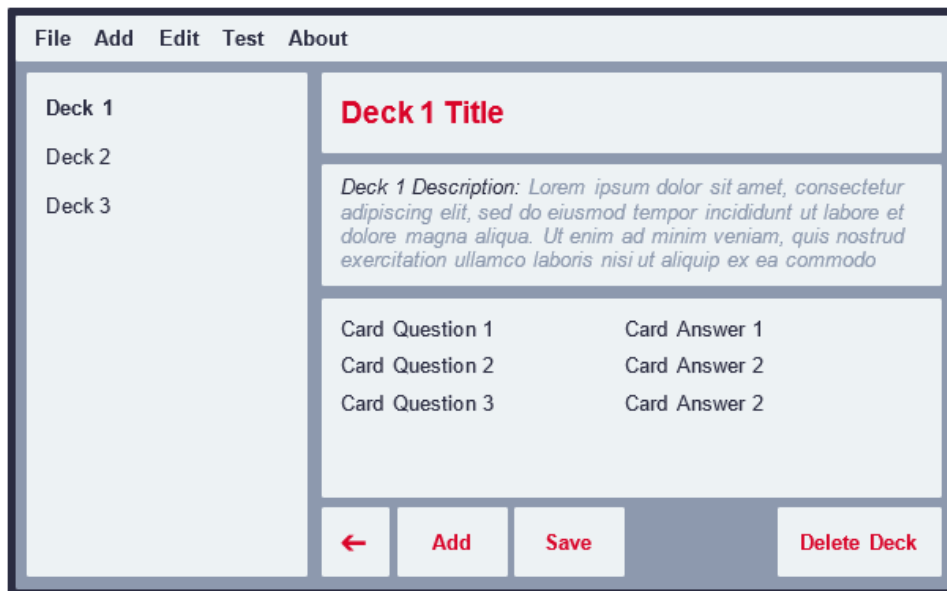


Figure 16: Deck view/edit/add design

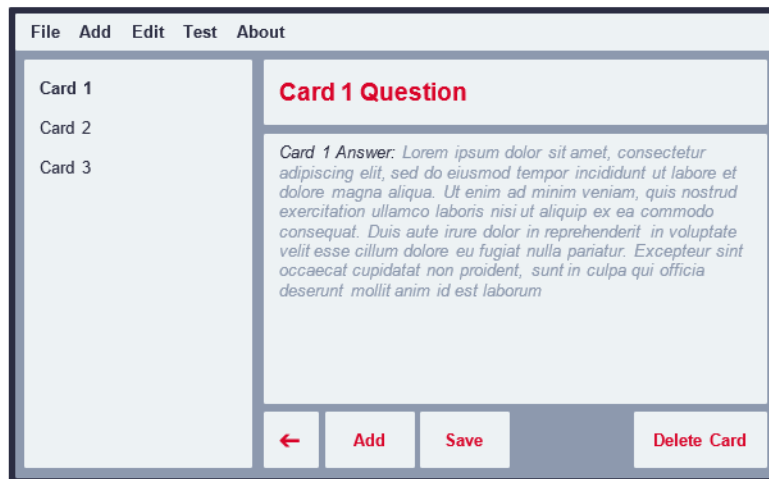


Figure 17: Card view/edit/add design

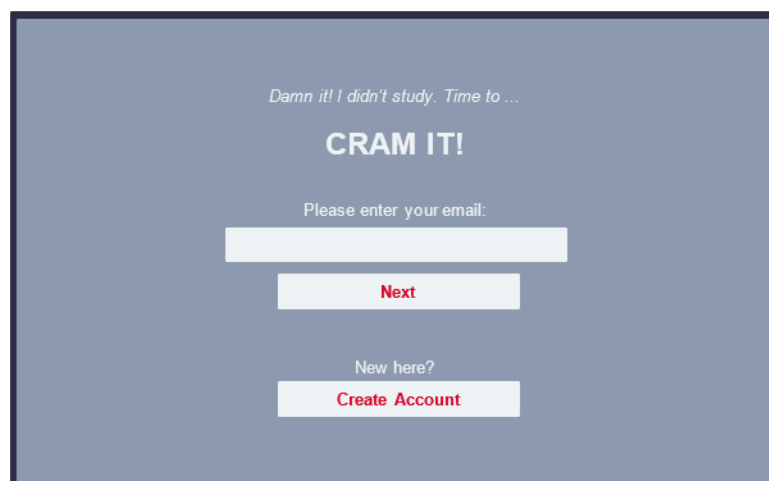


Figure 18: Welcome screen/enter email design

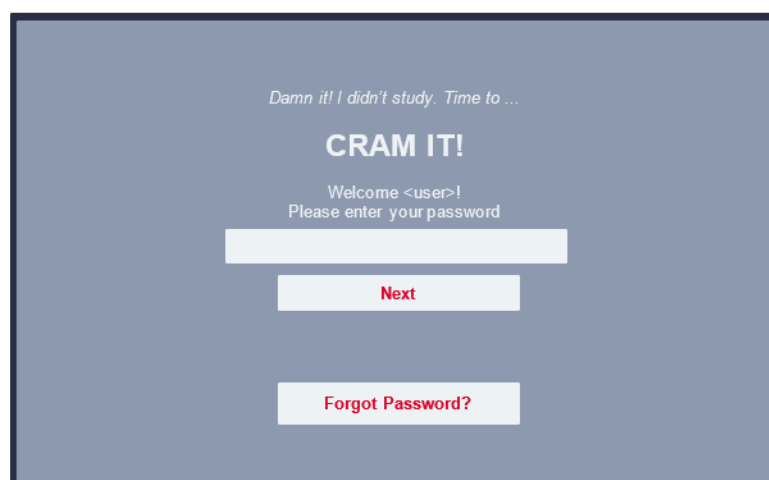


Figure 19: Password screen design

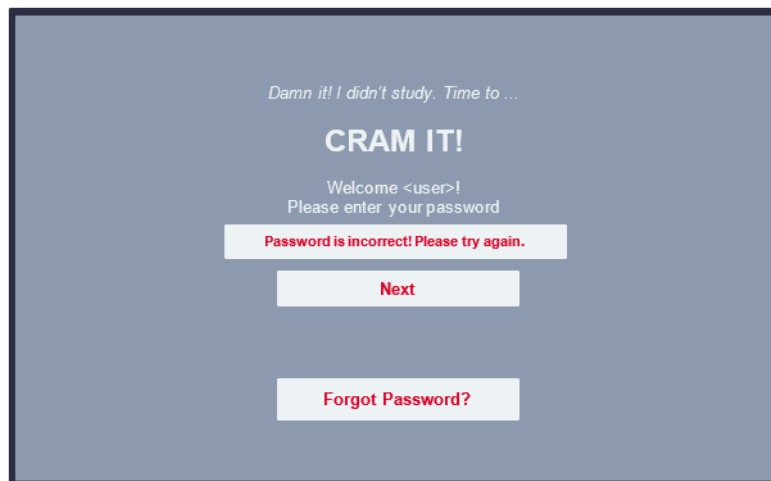


Figure 20: Error message for incorrect password that will disappear after 3 seconds allowing new input.

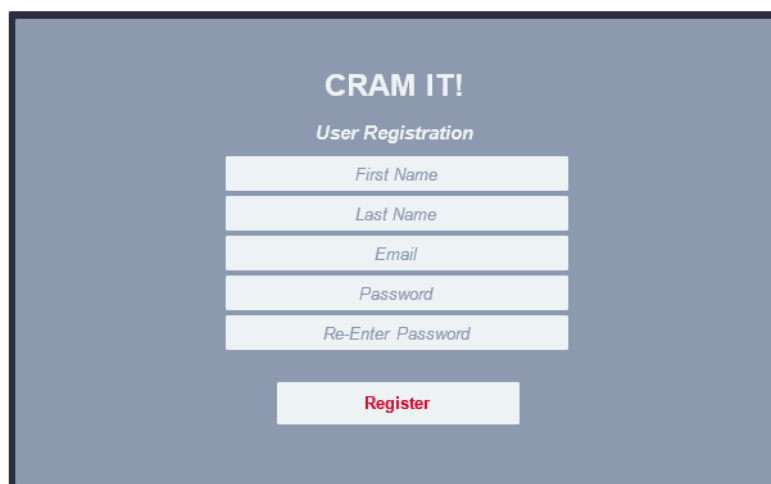


Figure 21: New user registration window

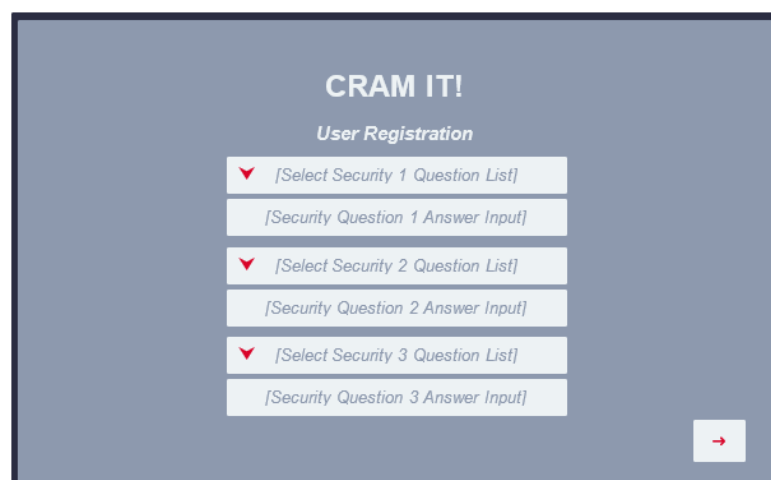
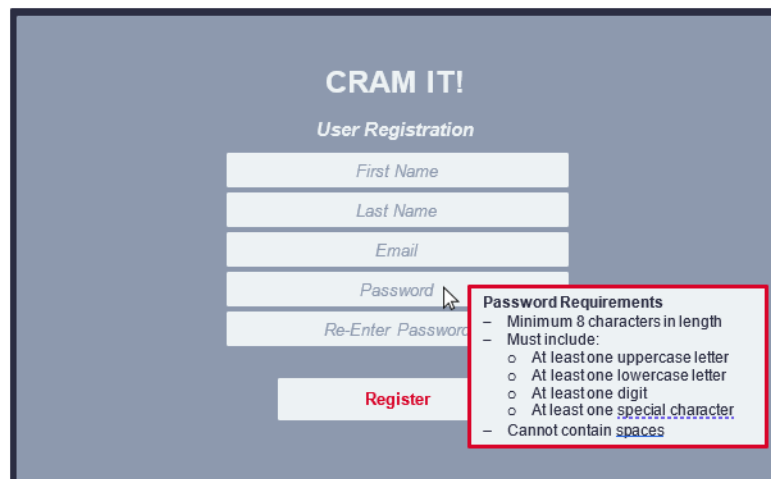


Figure 22: New user security question input

It could be option for wherever "Next" or "Back" buttons are used, to replace them with unicode arrows,

to reduce the space used within the GUI.



The image shows a 'User Registration' form titled 'CRAM IT!'. The form has five input fields: 'First Name', 'Last Name', 'Email', 'Password', and 'Re-Enter Password'. A 'Register' button is at the bottom. A red-bordered pop-up window titled 'Password Requirements' is overlaid on the 'Password' field. The requirements listed are: Minimum 8 characters in length; Must include: At least one uppercase letter, At least one lowercase letter, At least one digit, and At least one special character; and Cannot contain spaces.

CRAM IT!

User Registration

First Name

Last Name

Email

Password

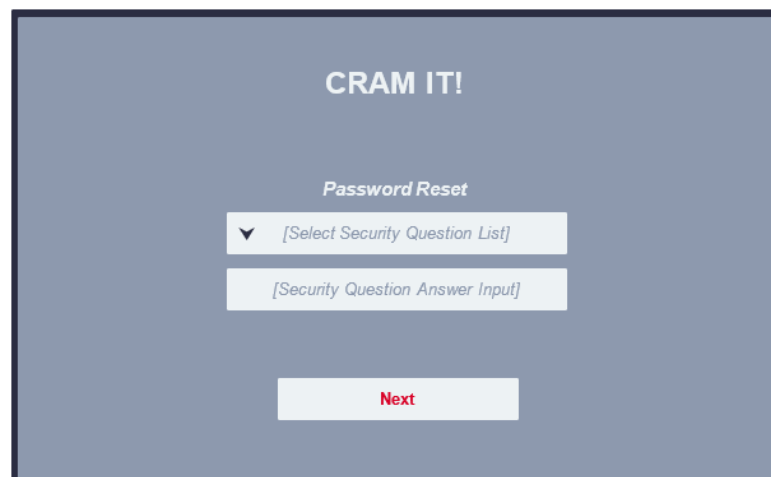
Re-Enter Password

Register

Password Requirements

- Minimum 8 characters in length
- Must include:
 - o At least one uppercase letter
 - o At least one lowercase letter
 - o At least one digit
 - o At least one special character
- Cannot contain spaces

Figure 23: Pop up window for password requirements or for when requirements aren't met.



The image shows a 'Password Reset' form titled 'CRAM IT!'. It has a dropdown menu for '[Select Security Question List]' and an input field for '[Security Question Answer Input]'. A 'Next' button is at the bottom.

CRAM IT!

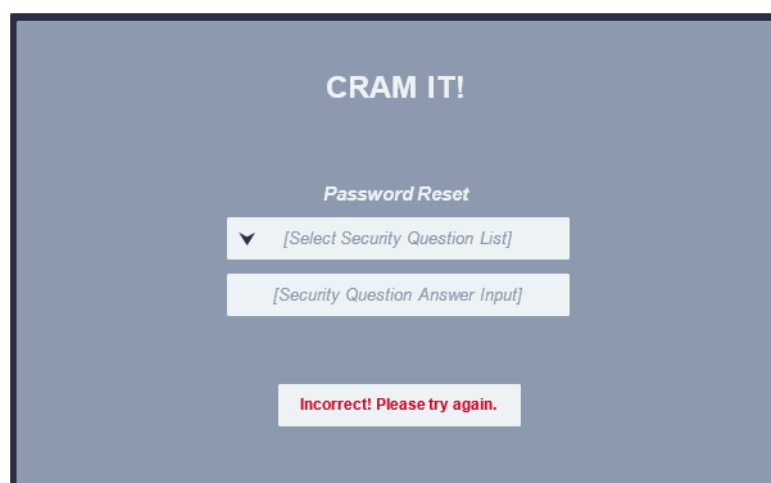
Password Reset

▼ [Select Security Question List]

[Security Question Answer Input]

Next

Figure 24: Security question select



The image shows the same 'Password Reset' form as Figure 24, but with an error message displayed below the input fields: 'Incorrect! Please try again.'.

CRAM IT!

Password Reset

▼ [Select Security Question List]

[Security Question Answer Input]

Incorrect! Please try again.

Figure 25: Incorrect security question error message

CRAM IT!

Please enter your new password

Password

Re-enter Password

Minimum 8 characters in length
Must include:

- At least one uppercase letter
- At least one lowercase letter
- At least one digit
- At least one special character

Cannot contain spaces

Reset Password

Figure 26: Password reset window

File Add Edit Test About

Testing Deck: <Deck Name>

Card Question

→

Figure 27: Flip testing mode - display question

File Add Edit Test About

Testing Deck: <Deck Name>

Card Answer

→

Figure 28: Flip testing mode - display answer after clicking next

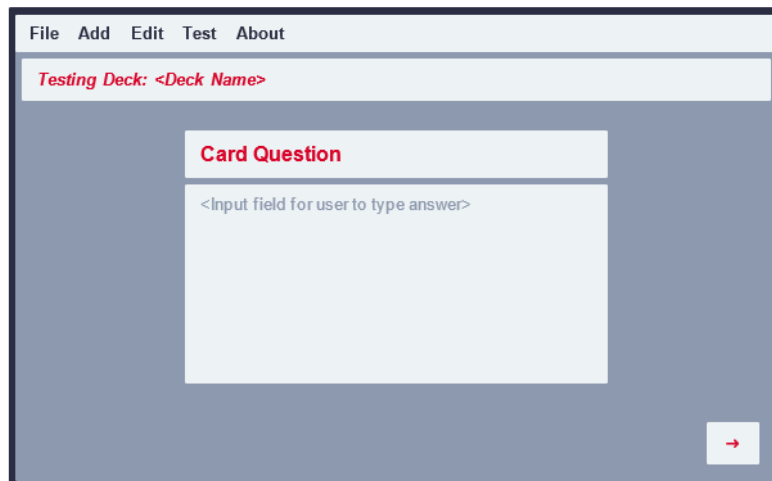


Figure 29: Answer testing mode - display card question then a text input area for the user to input their answer

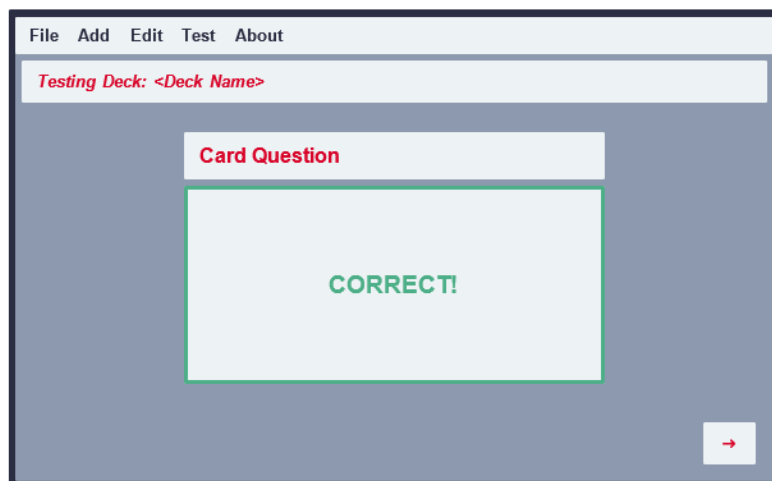


Figure 30: Answer testing mode - display 'correct' if answer matches database

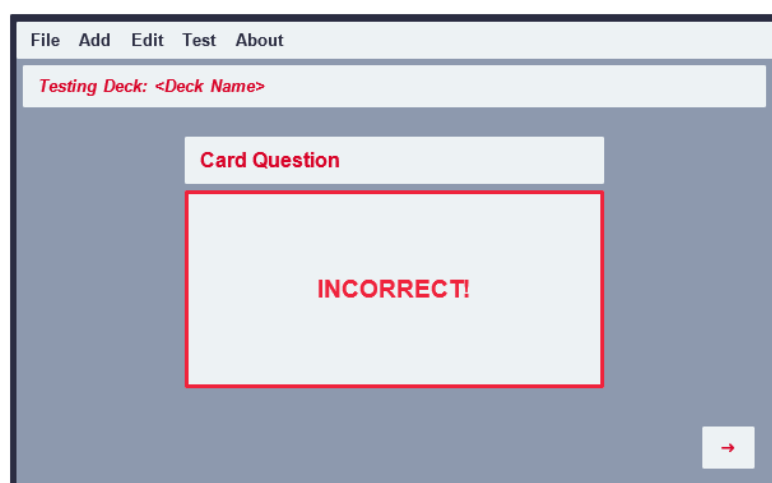


Figure 31: Answer testing mode - display 'incorrect' if answer does not match database

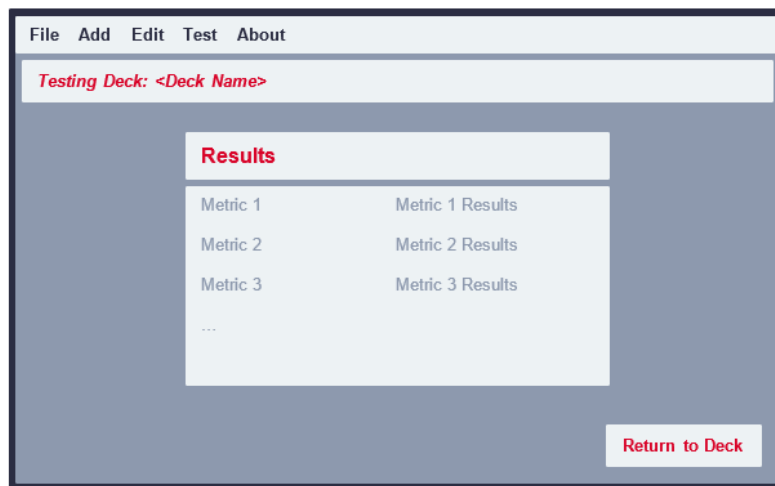


Figure 32: Metrics of test once complete