**CSCI 5601 – Milestone 2**

**(Due: Sunday, November 20 at 11:00pm)**

**Group Information**

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| Date: November 23, 2022  Group Name: Team Blue |

**Appendix C - Cognitive Walkthrough Sheets**

Date of Evaluation: November 23, 2022

Name of Evaluator: Sagarkumar Pankajbhai Vaghasia

**Description of System**:

This system is a mobile-based application to manage the daily occurring tasks or to-do lists for a user. It has the capability to allow users to perform task management efficiently and plan their work well ahead. Apart from task management features it also provides an add-on feature called 'Focus mode' which allows the users to concentrate on their work by disabling the notification to pop up on their screens. This system also allows the user to prioritize their work based on importance and urgency.

**Typical Users**: Abby

**Typical Tasks**:

It must support the following features and constraints:

1. Users can create a task reminder for a specific time and date with details like task name and description.

2. Users can add predefined priority levels to the tasks created.

3. Users can schedule recurring task reminders and select the weekdays for them.

4. Users can use Focus Mode to avoid distractions and work.

5. Users can change the Focus Mode and Relaxing time durations.

6. Users can view the history of the focus hours in a chart for the past week and month.

7. Users can view tasks in a list and in the Calendar view.

8. Users can add labels to the tasks and categorize them.

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Cognitive Walkthrough Sheet:

**Task Title**: Setting up a reminder for a research task due on the weekend

**Task Scenario**:

Abby is super busy with academics as she must submit the abstract for her thesis. Additionally, a snowstorm is forecasted for the weekend, so she has a list of piled-up tasks. She wants to set reminders for important things to finish before the weekend.

**Use-Case:**

1. User opens the app, and the system displays the start screen.
2. The user clicks on the reminder icon to set up a reminder.
3. The system displays the reminder form with fields title, description, date, time, snooze, and priority.
4. The user enters the title and description.
5. The system validates if a title is there.
6. The user selects the reminder date.
7. The system should check the validity of the date.
8. The user selects the reminder time.
9. The system should check the validity of time.
10. The user enters the snooze interval.
11. The user touches the priority field.
12. The system displays the priority tags set by the user.
13. The user selects a priority.
14. The user selects continue.
15. The system displays all the information.
16. The system prompts the user to accept the information.
17. The user accepts and closes the app.

**Task 1 – Prototype Page 1:**

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Step1: Abby opens up the app and navigates to reminders[Use Case Steps 1-2]

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Yes, Abby is know what to do as the screen is basic and the “Set Reminder” button is highlighted on the screen |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | Of course, Abby will see the “Set Reminder” button on the navigation bar at the bottom of the screen |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | The next screen brings up the reminder form to add reminder title, description, date, time, title and priority. |  |  |  |

**Task 1 – Prototype Page 2**

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Step 2: Abby chooses set up reminder and the reminder form opens up, she enters reminder title and description[Use Case Steps 3-5]

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will be able to see clearly the fields that she has to input for setting reminder. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) |  |  | Abby might not know the purpose of the two snooze buttons as it is ambiguous. | 2 |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) |  |  | There is a continue button available at the bottom but no back/prev button can be seen so it is tough to navigate in the app. | MF |

**Task 1 – Prototype Page 3**

**Calendar

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Step3: Abby selects the date for the reminder [Use Case Steps 6-7]

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | The date icon is evident besides the date input box which will help Abby to select the date easily. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | Abby will see the date icon beside the date input box. Abby will the action on that to set the date for the reminder. |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | The next screen is very basic which will took Abby to set time for the reminder. |  |  |  |

**Task 1- Prototype Page 4**

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Step 4: Abby selects the time for the reminder [Use Case Steps 8-9]

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will be able to see the time icon which helps her to set time directly from the clock instead of entering manually. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | Yes, Abby will be able to see the action button for setting time of the reminder besides the time input box. |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | The next screen again takes Abby to reminder form to add remaining details. |  |  |  |

**Task 1 – Prototype Page 5**

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Step 5: Abby enters the snooze time for the reminder [Use Case Steps 10]

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will be able to see the snooze tab which helps her to set snooze time by entering manually. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) |  | On the first glance Abby will not able to notice the correct action as the reminder form contained similar two buttons for snooze. |  | MF |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) |  |  | After setting snooze time the next screen Abby will see is directly for setting priority of reminder. Instead of that may be she could be taken back to reminder form screen | MF |

**Task 1 – Prototype Page 6**

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Step 6: Abby selects the priority for the reminder [Use Case Steps 11-13]

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will be able to see the priority drop down which helps her to set the priority of the reminder. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) |  | Abby is confused between the screens available as there is a drop-down icon in front of priority in reminder form and another screen shows that she will be taken to another page. |  | MF |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | The next page is reminder form which helps Abby to conclude that Abby had completed all the actions to set the reminder. |  |  |  |

**Task 1 – Prototype Page 7**

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Step 7: Abby verifies all the details and finishes up [Use Case Steps 14-17]

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will see all the details that is entered by her to verify it. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) |  |  | Abby will see the continue button which is the final action taken by her to set the reminder. Maybe there should be Save button as it is the last step. | 1 |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | The next screen takes confirmation for the reminder that Abby wants to set. So, Abby is able to interpret the action correctly. |  |  |  |

**Task Title**: Adding custom tags when setting a prioritization of a task

**Task Scenario**:

Abby wants to add a task for reviewing the assignment that she completed yesterday and set a prioritization for this task. She doesn’t want to use the predefined tags for setting the prioritization. She wants to add her own tag for prioritization.

**Use-Case:**

1. User clicks on the plus button to create a task.
2. System shows adding task screen.
3. User adds the task description and selects prioritization.
4. System shows some predefined tags and the option to add a custom tag.
5. User clicks on the custom tag option.
6. System shows a popup with a text box and an option to save or cancel.
7. User enters the tag in the textbox and clicks on the save button.
8. System adds the custom tag with the task.
9. User saves the task.
10. System saves the task along with its custom tag.

Step 1: Abby opens the task list

**Image 1:** Step 1

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will see the task list and the floating action button at the bottom of the screen to add new tasks is clearly evident. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | Abby will notice that if she want to add the task then she can click directly to the add icon. |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | Yes, Abby will able to associate and interpret the response from the action as it opens the new task form. |  |  |  |

**Image 2:** Step 2

Step 2: Abby types in a new task

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) |  |  | Maybe the input box for entering the new task should be larger for visilibility | MF |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) |  |  | Abby will struggle to notice the correct action as the dialog box doesn’t have any insights for what to do next | MF |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) |  | From nowhere, the next screen populates which will make Abby confused about the interpretation. Perhaps proper next steps can be added for removing confusion. |  | 4 |

**Image 3:** Steps 3 & 4

Step 3: Abby is presented with a list of priorities

Letter

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) |  |  | Abby will may notice the list of priorities from the button available on the left-hand side above keyboard. | 2 |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | After clicking on the button, Abby will see the list of priority. |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | If Abby wants to set the custom priority then the next screen will take it Abby to set custom priority. |  |  |  |

**Image 4:** Steps5 – 6

Step 4: Abby chooses to enter a custom priority

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will see the option to add custom tag for setting custom priority. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | Abby will see the dialog box to enter new tag after clicking on add custom tag. |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | In the next screen Abby will be taken to enter custom priority.` |  |  |  |

**Image 5:** Step 7

Step 5: Abby enters a custom priority

Graphical user interface, application

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**Image 6:** Steps 8-10

Step 4: Abby finishes up the task and can see the new task added

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will see that the task is added to the list. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | Abby will be able to see the task and take actions by clicking on the task. |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) |  | Abby will not be able to interpret what to do next as there is no action that she can take after finishing up the task. |  | MF |

**Task Title**: Focus Mode

**Task Scenario**:

Abby is at the end time of the semester when she has multiple assignments due frequently. This is the time when Abby needs her mind to stay focused for more time of the day and utilize it productively. Hence, Abby turns on the focus mode on her phone which helps her stay determined and work on her assignments.

**Use-Case**

1. The system displays the option of focus mode for increasing work productivity.
2. The user clicks on the button provided for focus mode.
3. The user is requested to enter the time to experience the focus mode.
4. The user enters the time in HH: MM format.
5. The user clicks on the button to turn the focus mode on.
6. The user will be asked to experience advanced focus mode which blocks the notifications sound.
7. The user clicks on yes to activate advanced focus mode.
8. The user enters the time to activate the advanced focus mode.
9. The user clicks on submit button for advanced focus mode.
10. The system then displays a timer clock for the focus mode to the user.

Step 1: Abby navigates through the main menu bar to access the application

**Image 1:** Step 1-2

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | The button for “Focus Mode” can be easily seen from the home page of the app. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | Abby will see the button for “Focus Mode” is available. |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | The next screen is basic having the Focus mode tab opened. |  |  |  |

Step 2: Abby selected the Focus mode feature from the menu bar and has now entered into keeping the phone on focus mode.

**Image 2:** Step 3-5

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will see all the options related to Focus Mode on the screen. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | Abby will be able to see that all the actions are available on the screen. |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) |  | The next screen asks for entering advance focus mode. But there is no button available on the screen to enter advance focus mode. |  | 4 |

Step 3: Abby has selected the duration of time that she would like to be on focus mode for by entering the time in the appropriate format.

**Image 3:** Step 6-7

Diagram, text

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will be able to see the action to enter advance focus mode or not. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | Abby will be able to see the correct action is available as the message dialog box asks Abby to enter advance focus mode. |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | The next screen is basic which shows Advanced Focus mode. So, Abby will be able to interpret that she has done right action. |  |  |  |

Step 4: Abby has entered the time for switching the focus mode on. Further, she has been asked to choose if she wants to enter the advanced focus mode which will help her not distract by entering a do not disturb mode where no notification sound is on.

**Image 4:** Step 8-9

Graphical user interface, text

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| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will be able to see the Advance Focus mode form to enter details for advanced focus mode. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) | Yes, Abby will notice as all the actions can be clearly seen on the screen. |  |  |  |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | The next screen brings Abby to set time which associate that she took right action. |  |  |  |

Step 5: After entering the appropriate time for Advanced focus mode Abby can now see the timer on for the focus mode where she can see the duration of time she has been focus to perform the particular task.

**Image 5:** Step 10



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Question | Yes (reason/s) | No (reason/s) | Maybe (reason/s) | Severity Rating (1-5) |
| **Will the correct action be sufficiently evident to Abby?** (“Know what to do?” -Will the Abby know what to do to achieve the task?) | Abby will be able to see the timer for focus mode which can be seen on the screen. |  |  |  |
| **Will the Abby notice that the correct action is available?** (“See how to do it” - Can users see the button or menu item that they should use for the next action? Is it apparent when needed?) |  | If Abby wants to turn off the focus mode in between then there is no option to terminate or off the focus mode once it is started. |  | MF |
| **Will the Abby associate and interpret the response from the action correctly** (“Understand correct action/not correction” - will users know from the feedback that they have made a correct or incorrect choice of action?) | Yes, Abby will enter the focus mode after setting the focus mode. |  |  |  |

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