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CSE 470
Final Project
April 29th , 2023

Planner

Overview:

This app combines a daily planner and a to-do list, utilizing the time-blocking method. The main screen shows the user's day. It includes timely events and all additional time needed for the event, including transit time and preparation. Below the timely events is the "to-do list." The user is able to add tasks and the estimated time they would take. To develop this app more, I would add logic to propose times for these tasks based on gaps in the user's schedule. If the user confirms the time, these tasks will move into the daily schedule. The interface and back-end to integrate this logic is already coded. This way, the user can visualize their day and how to best accomplish their to-do list.

7:29

Delete ☐ NEW

Today's Schedule:

Meeting

2:40 - Start Prep
3 - 3 - Event

Class

4:10 - Start Prep
4:30 - Leave to Arrive on Time
5 - 6 - Event
6:30 - Arrive Back

Additional Tasks:

☐ **Wash Dishes**

Estimated Time: 25 minutes

Today's Active Hours: 9:00AM 9:00PM

7:45

Event Title

☒ Scheduled Event ☐ Task

04-28-2023	7:44
04-28-2023	8:44

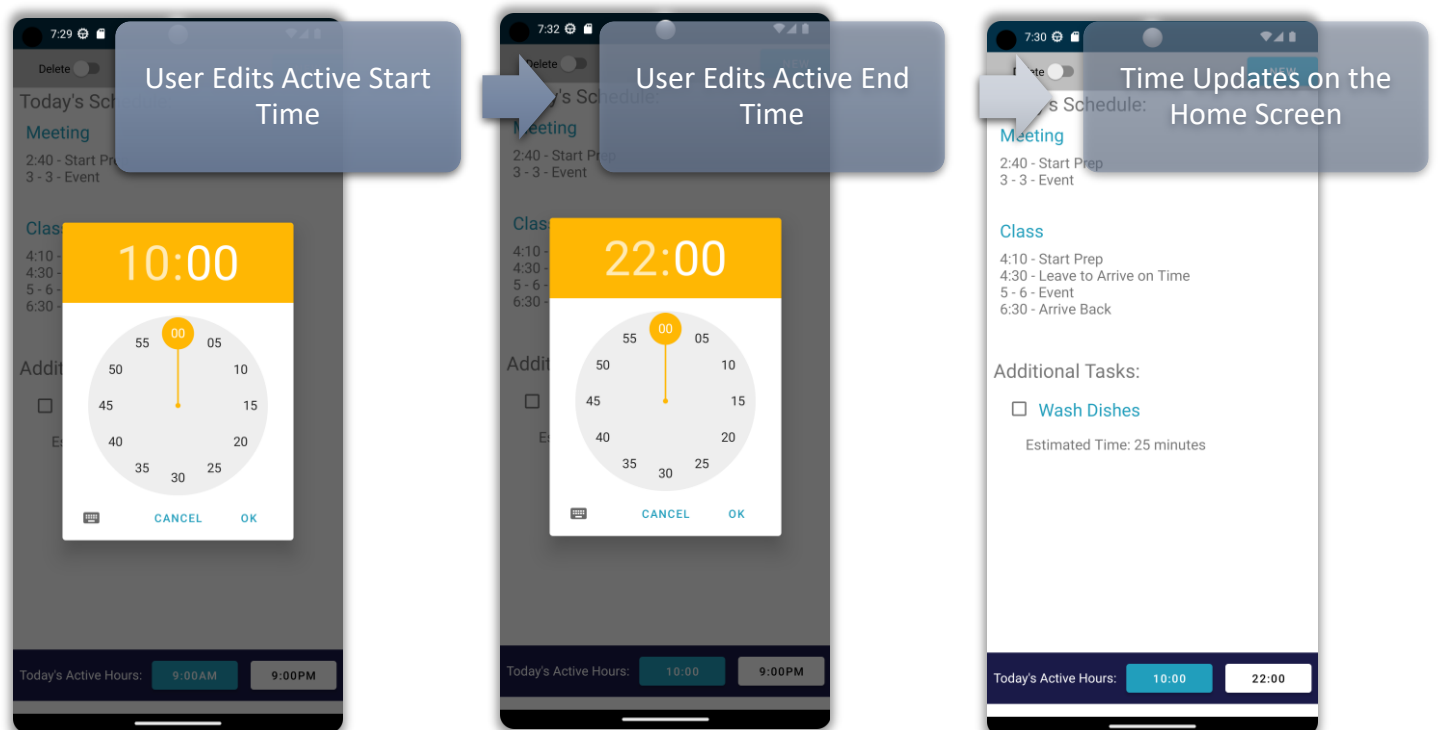
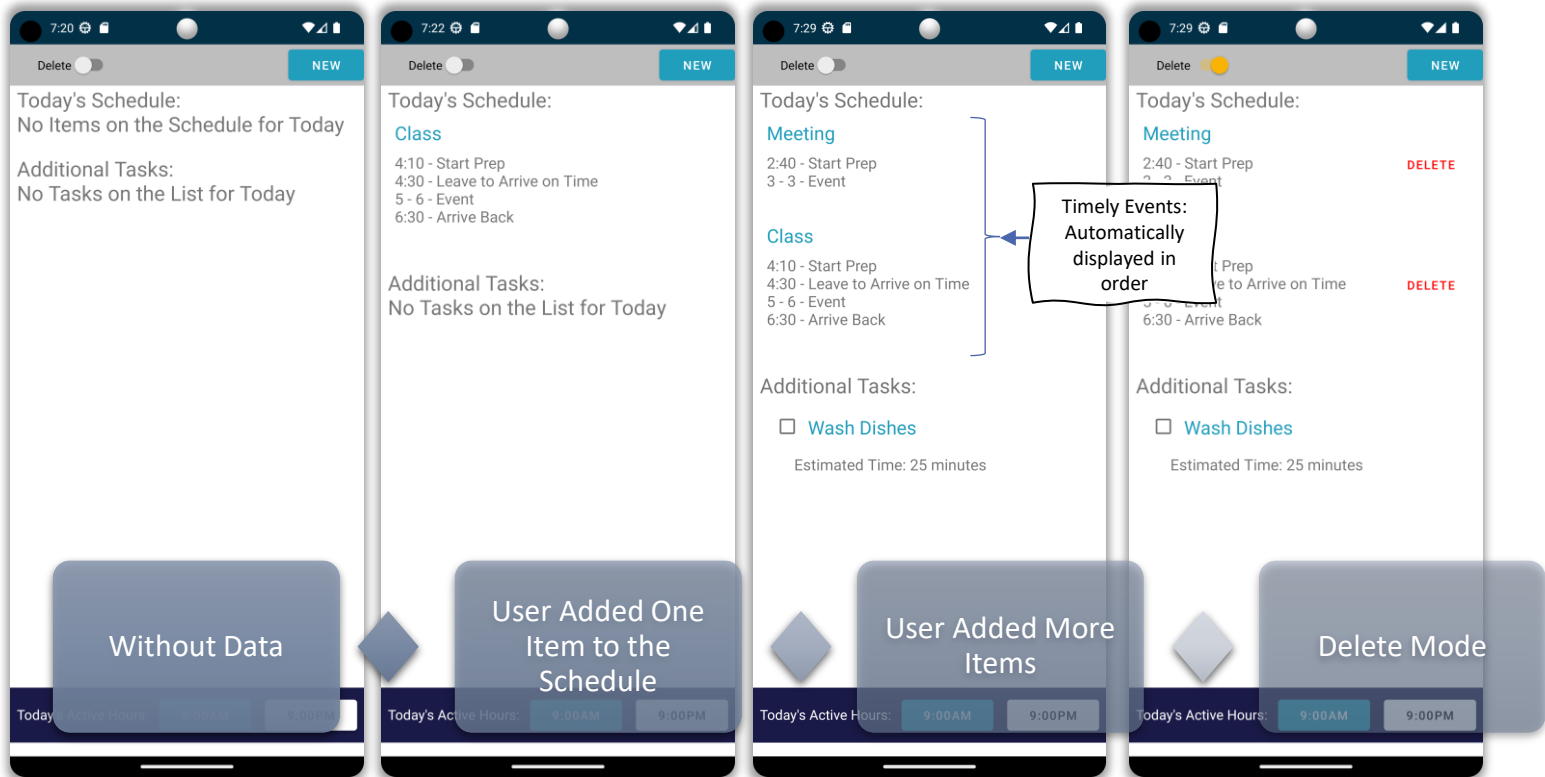
Prep Time Needed: in minutes

Transit Time to Event: in minutes

Transit Time From Event: in minutes

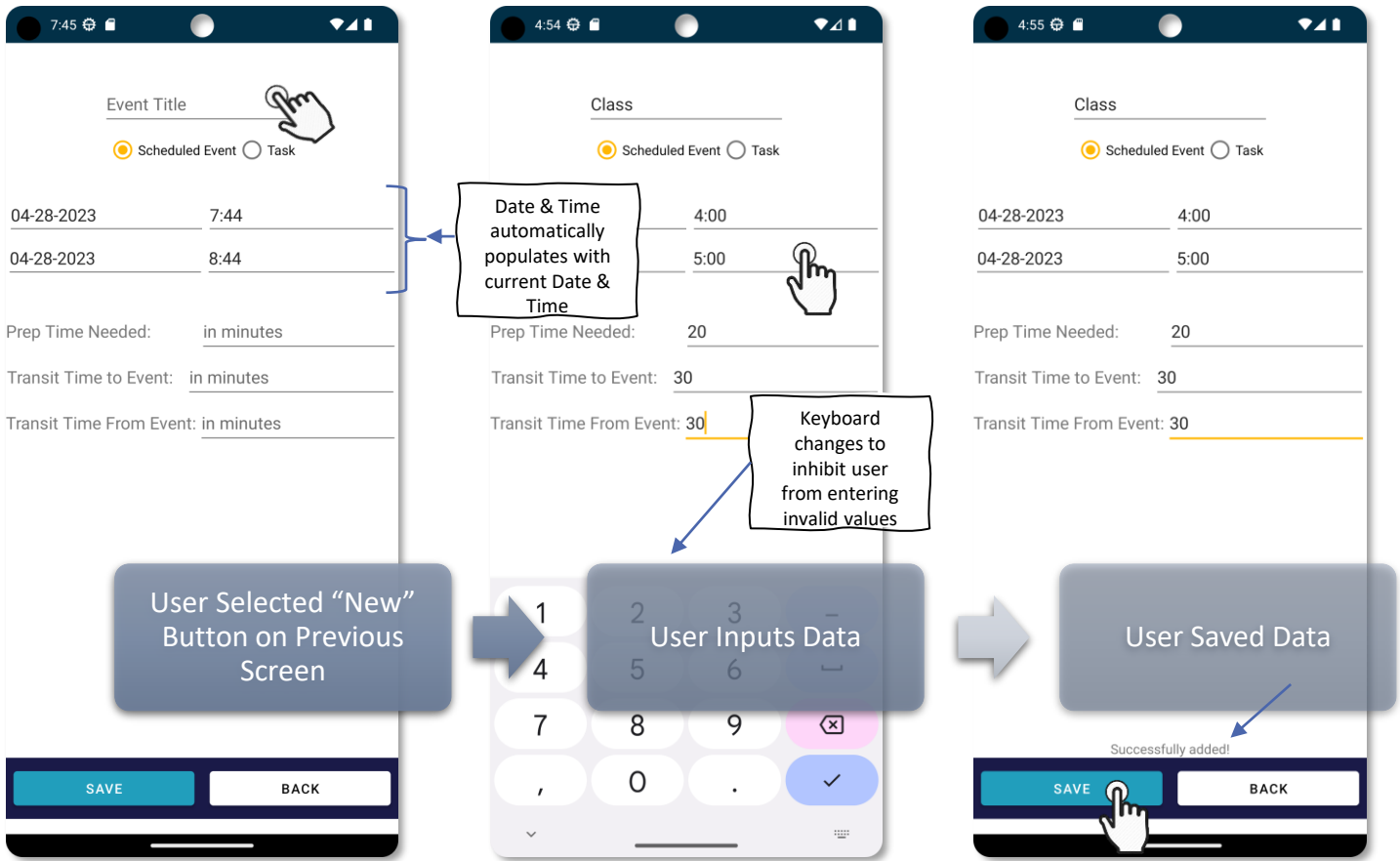
SAVE BACK

Main Screen: This app utilizes 2 main screens. The first is the daily overview. This page consists of a constraint layout with a header, a scroll view and a linear layout on the bottom for some settings. The scroll view contains a constraint layout which consists of 2 labels and 2 recycler views attached to 2 separate adapters with similar but different pertaining xmls. The first label is for the timely events. If the array is empty, a note will be added stating thusly. The first recycler view is for the timely events, showing the users schedule in order with any time-related details. The second label and recycler view is for the tasks. Lastly, the tab bar shows the users active hours. These are the hours that the app will use to suggest times for the tasks.



Edit Events Screen: This screen is used to edit events. It consists of an edit view for the name of the event, followed by a radio group to classify the event as a task or scheduled event, This helps allow the user to move tasks onto the schedule easily.

Adding an Event



Resulting Database: If I had more time I would restructure the database. Tasks are an extension of Scheduled Events but I think there could have been a better way to do it.

Tables

Database Metadata

Table: event

Page:

Jump

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<

1-1

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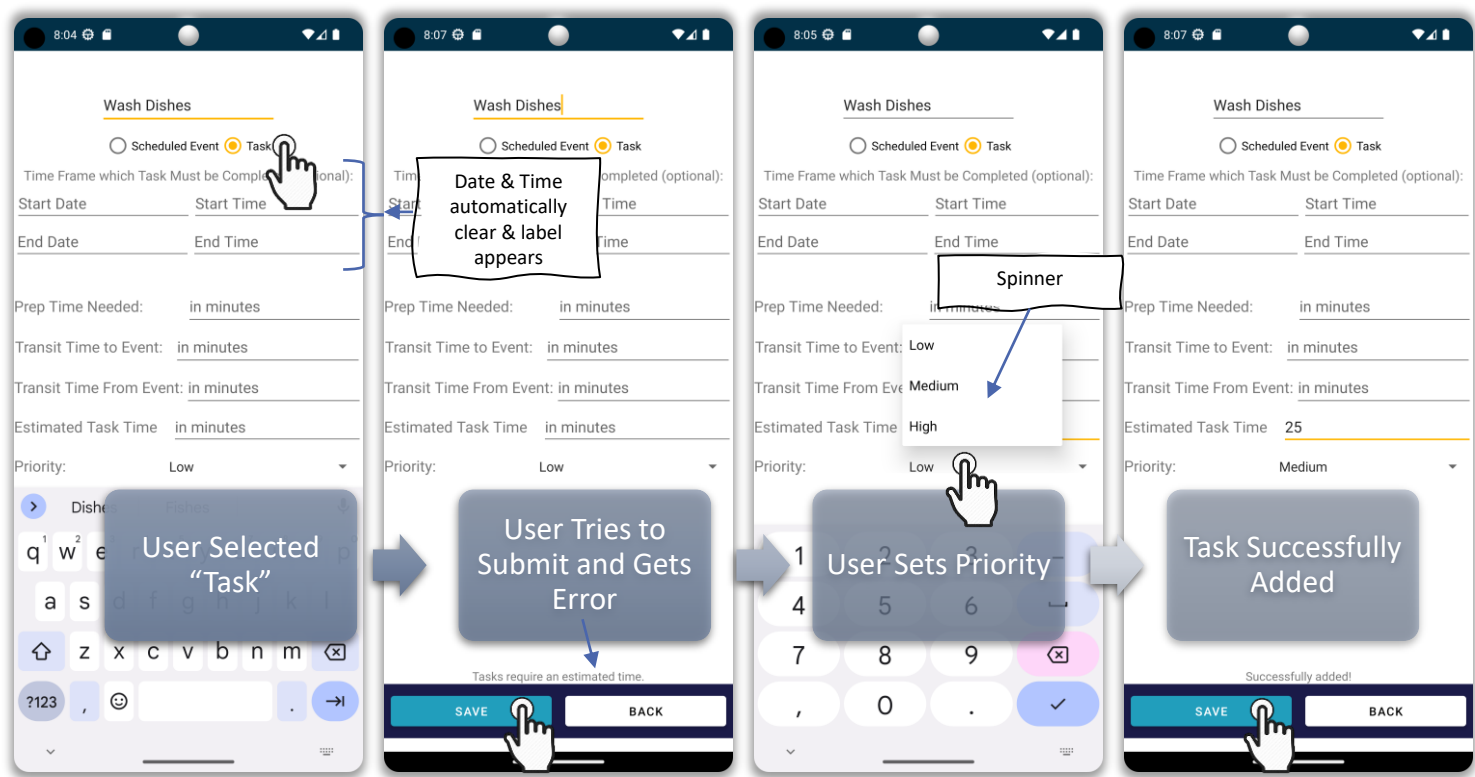
>>

Refresh

_id	name	timely	startdate	enddate	starttime	endtime	prepTime	transitTime...	transitTime...
1	Class	1	04-28-2023	04-28-2023	5	6	20	30	30

Edit Events Screen Continued: When a user selects the radio choice “Task”, a label and new fields appear.

Adding a Task



Resulting Databases:

Tables Database Metadata

Table: event

Page: 1-1

_id	name	timely	startdate	enddate	starttime	endtime	prepTime	transitTime...	transitTime...
1	Class	1	04-28-2023	04-28-2023	5	6	20	30	30
4	Wash Dishes	0					0	0	0

Tables Database Metadata

Table: task

Page: 1-1

_id	eventId	estimatedT...	priority
2	4	25	Low