



IS413 Group F, The Dynamic To-Do List

Wesley Syi, Mohammed H. Amin, Caleb J.,
Chekole, Tewolgn

Introduction:

The IS413 Group F wanted to create an application which allowed us jot down action items:

Applications:

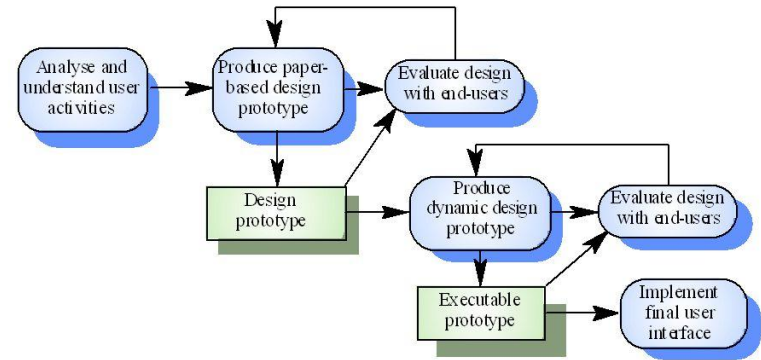
1. Grocery List
2. To-Do List
3. Assignment List
4. Chores List



Some Concepts Used

- TextView Widget
- Enter Text Widget (Plain Text)
- Buttons
- Radio Buttons/Groups
- Constraint/Relative Layouts
- App Theme Customization
- textColor, textSize, gravity, and font family
- Click Listeners
- Intents
- Custom Icon (Image Asset)
- List Adapter
- Drawable Left (Image Asset)
- Checkbox
- Toast (Alert Messages)

User interface design process



Project Importance

We created our own to-do list

Bypass inconvenience of:

- Post it notes
- Planner Books
- Calendar Event Creation
- Google Play Store/ App store fee

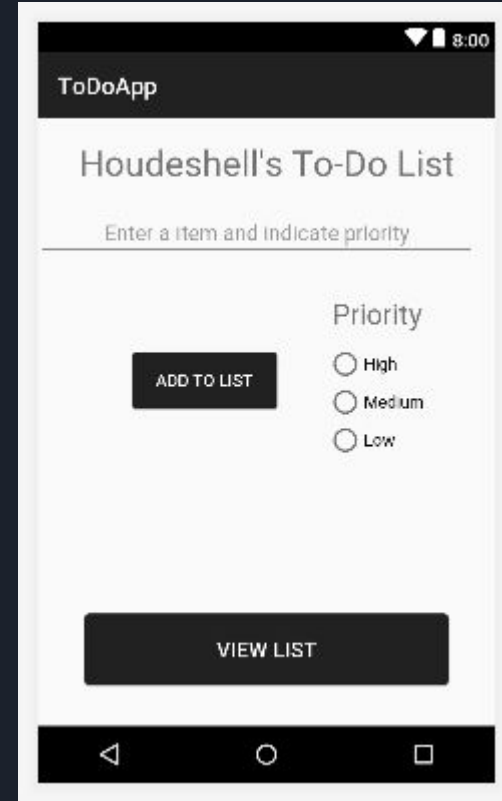
With added features like:

- Priority
- Status of action item



To-do items add

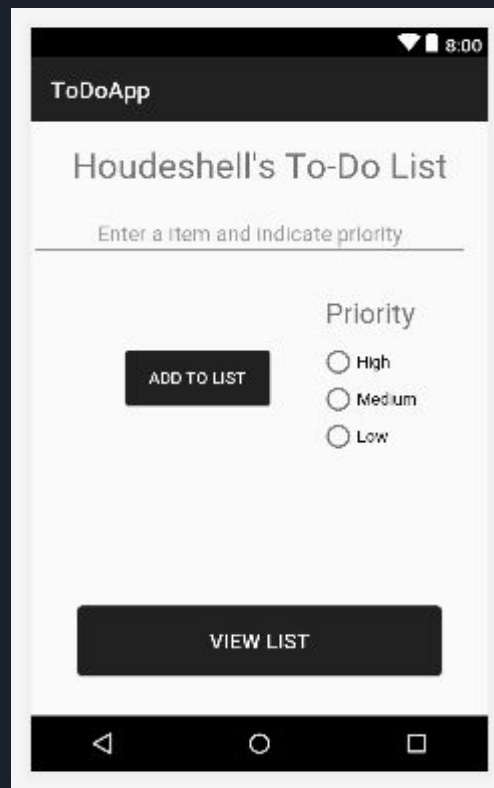
- Enter name of the of item to be added to the To-do list
- Select the priority of high, medium, or low.
- Click “ADD TO LIST” to add the item to the list.
- If there is no item entered in the name field, then a message will pop up at the bottom of the page prompting the user to enter a item.
- To navigate to the To-do list, simply click on the “VIEW LIST” button at the bottom of the page to jump to the list.



The screenshot displays a mobile application interface for a To-Do list. At the top, a dark header bar contains the text 'ToDoApp' on the left and status icons (Wi-Fi, battery, and time 8:00) on the right. Below the header, the title 'Houdeshell's To-Do List' is centered. A light gray input field with the placeholder text 'Enter a item and indicate priority' is positioned below the title. To the right of the input field, the word 'Priority' is displayed above three radio button options: 'High', 'Medium', and 'Low'. A dark button labeled 'ADD TO LIST' is located to the left of the priority options. At the bottom of the screen, a large dark button labeled 'VIEW LIST' is centered. The entire interface is set against a light gray background, and the bottom of the screen shows a dark navigation bar with standard Android icons (back, home, and recent apps).

Priority

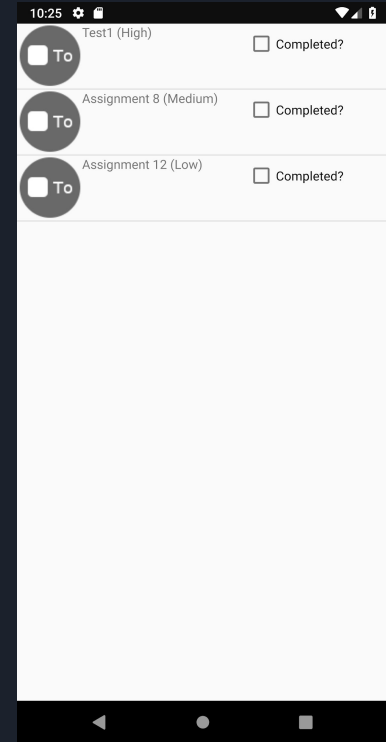
- Select the importance of the list item being added as high, medium, or low.
- If the user does not select an option of priority, then a message will pop up asking for them to select an option.



The screenshot shows a mobile application interface for a to-do list. At the top, the status bar displays the time as 8:00. The app's title bar is dark with the text 'ToDoApp'. Below this, the main title 'Houdeshell's To-Do List' is centered. A text input field with the placeholder 'Enter a item and indicate priority' is positioned below the title. To the left of the priority selection options is a dark button labeled 'ADD TO LIST'. To the right, under the heading 'Priority', are three radio button options: 'High', 'Medium', and 'Low'. At the bottom of the form is a large dark button labeled 'VIEW LIST'. The entire interface is set against a light gray background with a subtle grid pattern. The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps icons.

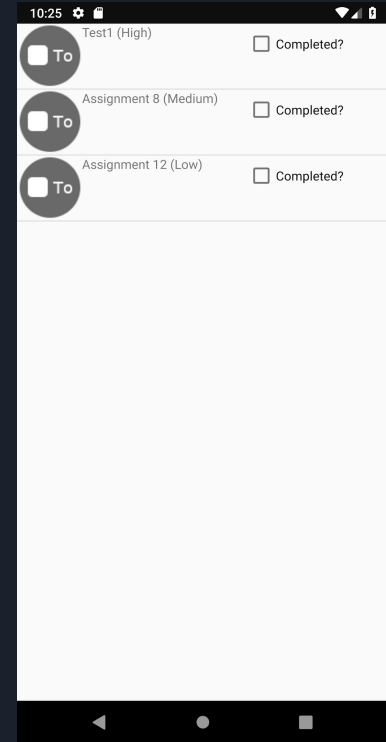
Priority indication

- A high priority is indicated with (high) at the end of the list name
- A medium priority is priority is indicated with (medium) at the end of the list name
- A low priority is indicated with (low) at the end of the list name



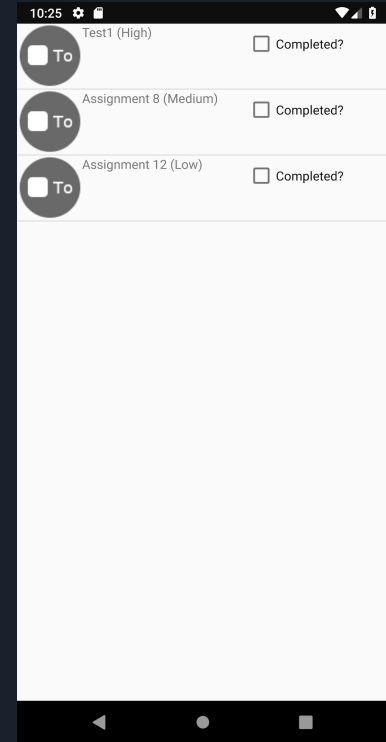
Custom Icon

- The custom icon are listed at the left the list page for each list item and are reflect as the app icon for Android.



Completed?

- User checks if the task has been completed or not
- When each task is checked off as completed, it does not erase the tasks from the list but works as a marker to show that the task is completed



Challenges We Faced

Multiple Versions of the app

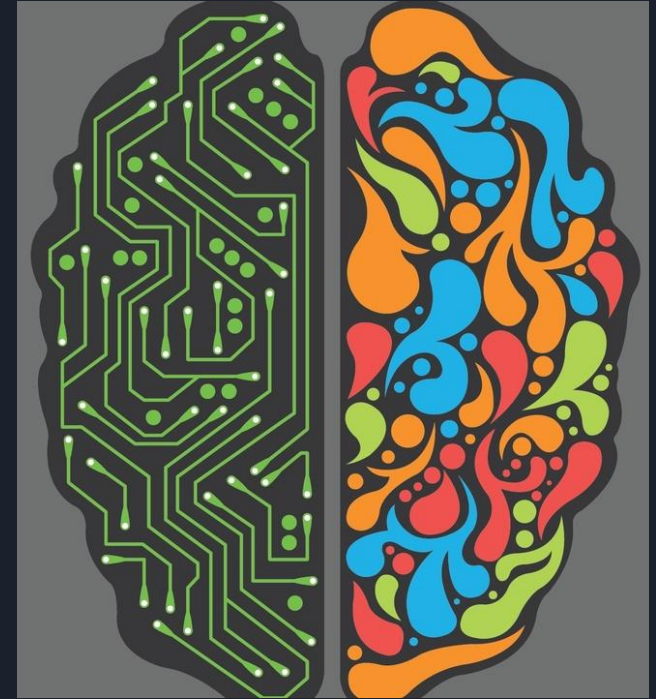
- One with alertDialog and Builder Class
- One with Fragments
- One with concepts learned in class

Aesthetics: font size, strength, family and app theme

No cache for List: Unable to save to-do items

Color: Unable to color text in list for priority

1. Priority High: Color Red
2. Priority Medium: Color Yellow
3. Priority Low: Color Green





Widgets/Class/Methods

Button - to clear the checked item in the ArrayList

- To cancel the Activity window and to go back to the home screen

TextField - to display the checked item

ArrayList- to add checked item

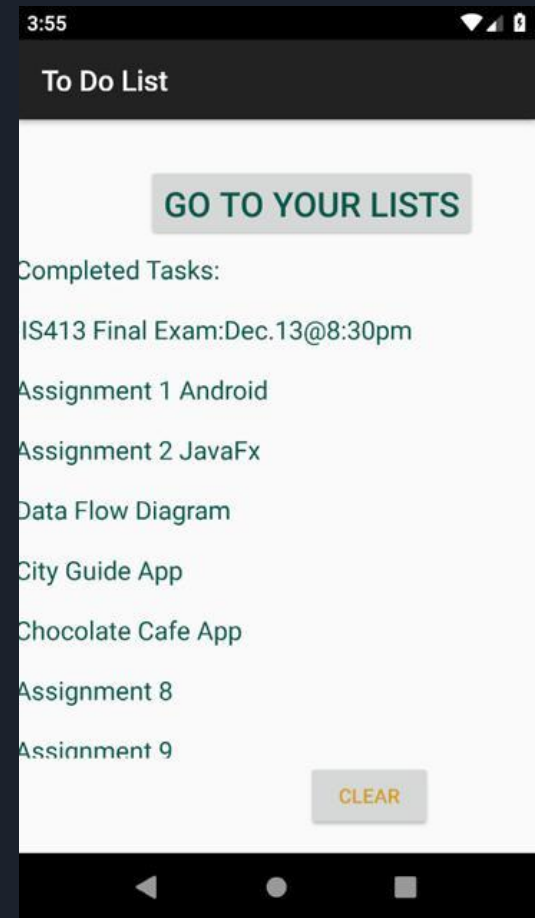
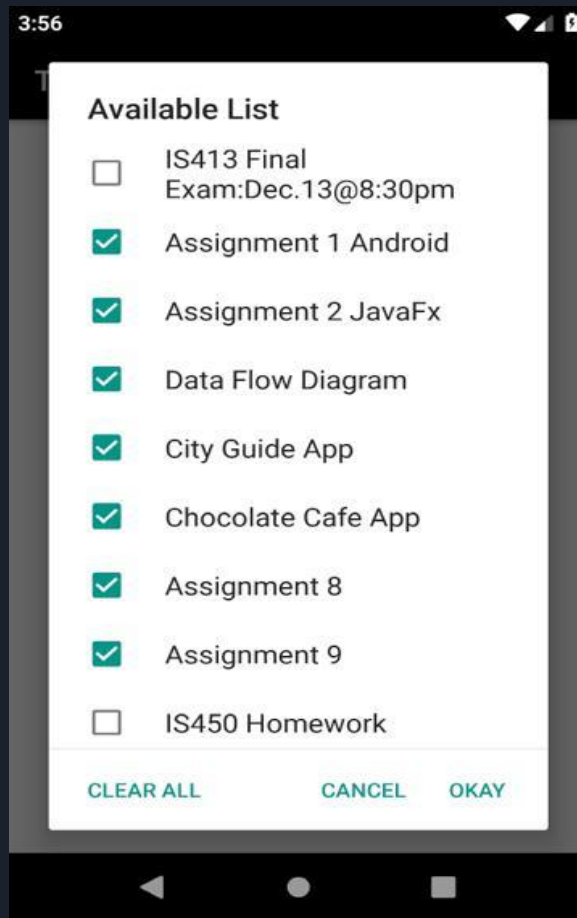
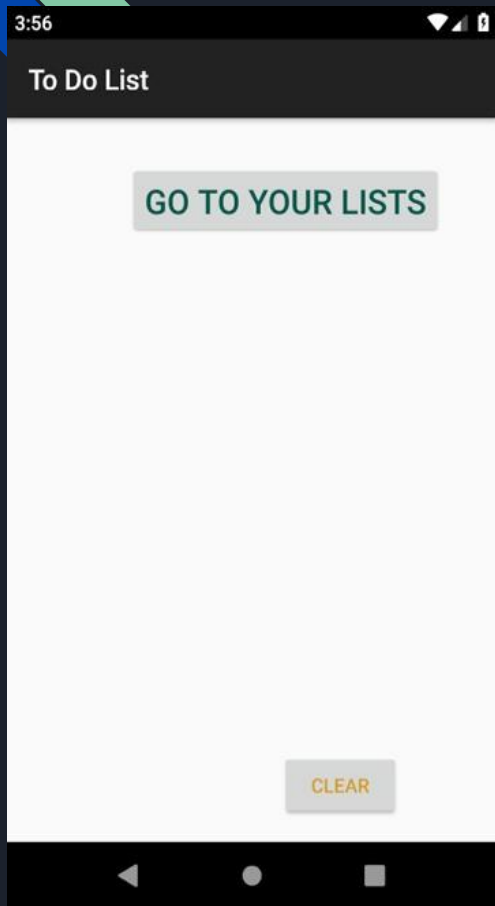
ArrayList- to hold the to do lists

AlertDialog.Builder class

AlertDialog.Builder(context) for default dialog theme

MultiClickListener

Flow of app





Demo of Final App



Appetize.io



Thanks for your time!!

Any comments or questions?

