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Description

Intended User

Features

User Interface Mocks

Screen 1

Screen 2

Key Considerations

How will your app handle data persistence?

Describe any corner cases in the UX.

Describe any libraries you'll be using and share your reasoning for including them.

Describe how you will implement Google Play Services.

Next Steps: Required Tasks

Task 1: Project Setup

Task 2: Implement UI for Each Activity and Fragment

Task 3: Your Next Task

Task 4: Your Next Task

Task 5: Your Next Task

GitHub Username: chatsgris

TaskAlert

Description

TaskAlert helps you to keep track and alert you of the errands you need to run around town at different venues. The app allows you to easily create a task, add a deadline, pin a location and forget about it. TaskAlert then sends out notifications to your phone when each task's deadline is approaching or when you are near any task's venue. Complete all your tasks now with TaskAlert!

Intended User

Everyone who needs reminder to complete their errands!

Features

List the main features of your app. For example:

• UI to create tasks i.e. title, description, deadline and venue

- Use Places API to pin venue to tasks
- UI to display list of tasks
- Saves task information locally
- Sends notifications when deadline is near
- Periodically scans device location against tasks' venues
- Sends notifications when device location is near venues
- Notification opens up Maps and directs you from device location to task venues
- UI to delete tasks
- Deletes tasks when deadline is past
- Removes task information from local database
- Widget to show list of tasks

User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Google Drawings, www.ninjamock.com, Paper by 53, Photoshop or Balsamiq.

Screen 1: Main Activity



Main activity shows a toolbar with app icon, app title and settings menu where users can choose accessibility options.

Also displays a list of tasks. User can click into each task for more details on description, deadline and venue, as well as if they want to edit or delete tasks. Directs to Screen 3.

FAB at the bottom right for user to add new task to the list. Directs to Screen 2.

Screen 2: Create New Task



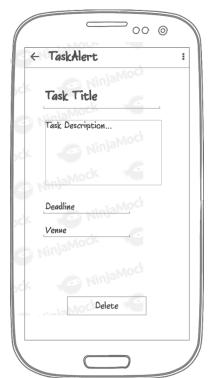
User enters information into edit-text boxes for title and description.

Choosing a deadline opens up a date and time picker.

Choosing a venue directs you to the Place Picker API.

Clicking done directs you back to Screen 1 Main Activity. All fields must be completed or an error message will show.

Screen 3: Task Detail Activity

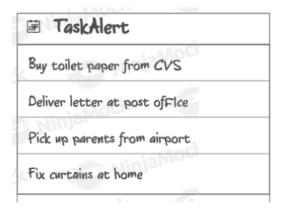


Shows more information about each task like title, description/details, deadline and venue.

Also features a button to delete task. When clicked, user will be redirected back to main activity with deleted task gone.

User can also edit task information by clicking respective fields.

Widget:



Widget displays a list of current tasks. Clicking on any task will lead to Screen 2 Task Detail Activity.

Key Considerations

How will your app handle data persistence?

The app stores data locally using a Content Provider.

Describe any edge or corner cases in the UX.

Corner case will be if the task has no deadline or venue. In this case, an error message appears and the user will be prompted to enter the most appropriate options i.e. a date very far into the future and/or a venue that's work or home.

Describe any libraries you'll be using and share your reasoning for including them.

Butter Knife to inject views easily. Timber for logging if data is in wrong format so that the app does not crash. Probably a few other libraries out there depending on needs.

Describe how you will implement Google Play Services or other external services.

Place Picker API for user to choose a venue of the task. Locations API to periodically scan task venues with device location. Maps API to direct user from device location to task venue.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

Task 1: Project Setup

- Configure libraries
- Set up content provider
- Set up Google Play services
- Set up dependencies
- Enables permissions

Task 2: Implement UI for Each Activity and Fragment

- Build UI for Main Activity
- Build UI for Task Detail Activity
- Build UI for Create Task Activity
- Build layouts for different orientation and devices
- Build animations and transitions

Task 3: Implement Data Persistence

- Database contains these columns: ID, title, description, created timestamp, deadline timestamp, venue longitude, venue latitude
- Whenever user creates a new task from Screen 3, add this task information to our local database and display new task accordingly in Screen 1 Main Activity.
- Whenever user edits a task from Screen 2, overwrite new information in the database.
- Whenever user deletes a task from Screen 2, delete task from database.
- In the background, schedule jobs every 1 hour and delete expired tasks.

Task 4: Creating New Tasks

- Add time and date picker for deadline selection
- Add Place Picker API for venue selection
- Store both information respectively in the database in the appropriate format

Task 5: Schedule Queries for Device Location Every 60mins

- Use Locations API to guery device location every 60mins
- Send notifications when device location is within proximity to any task venue

Task 6: Send Notifications

- Send notifications whenever deadline is approaching or device location is near any task venue
- If deadline is approaching, clicking on notification directs to Screen 2 Task Detail Activity
- If task venue is nearby, clicking on notification directs to Maps using Maps API showing route to venue

Task 7: Add Widget

- Widget displays a list of tasks
- Clicking on any tasks will lead to Screen 2 Task Detail Activity

Task 8: Add Accessibility Options

- Add content descriptions
- Navigations using a D-pad

Task 9: Ready for Production

• Setup signing configuration