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2. Create a new GitHub repo for the capstone. Name it “**Capstone Project**”
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My Quick Journal

Description

Start your journey of gratitude and happiness in life by recording the best things on your life and introspect on them. The app provides you with simple questions to answer to record your day such as “What are the good things that happened today ? “ , so that instead of writing long journal entries , you only need to record the most important things of your day and save them. Save your best images of the day along with journal entries to have your memories in one place.

Intended User

This app is for everyone who wants to record their day in a fast and easy way in a digital journal. This app instead of providing blank page to write your journal , gives your well thought out questions to answer daily and record highlights.

Features

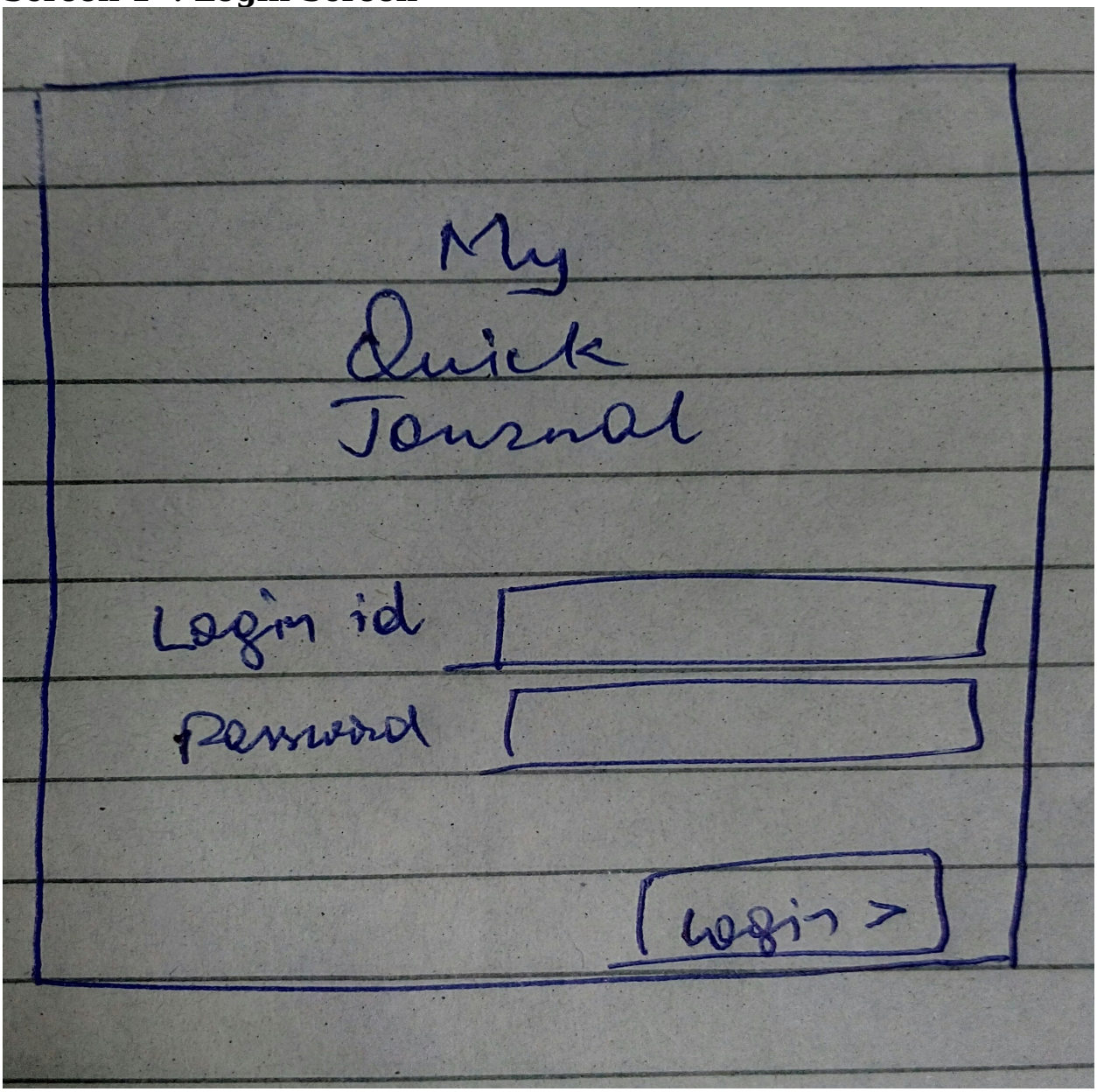
The main features of the app are:

- A navigation drawer allows the user to navigate to different screens
- Main screen shows recent journal entries sorted according to latest date.
- A diary entry consists of a set of questions that the user answers daily.
- He can attach images to every day entries which will be saved.
- The calendar screen allows the user to view entry by selecting the date from the calendar view.

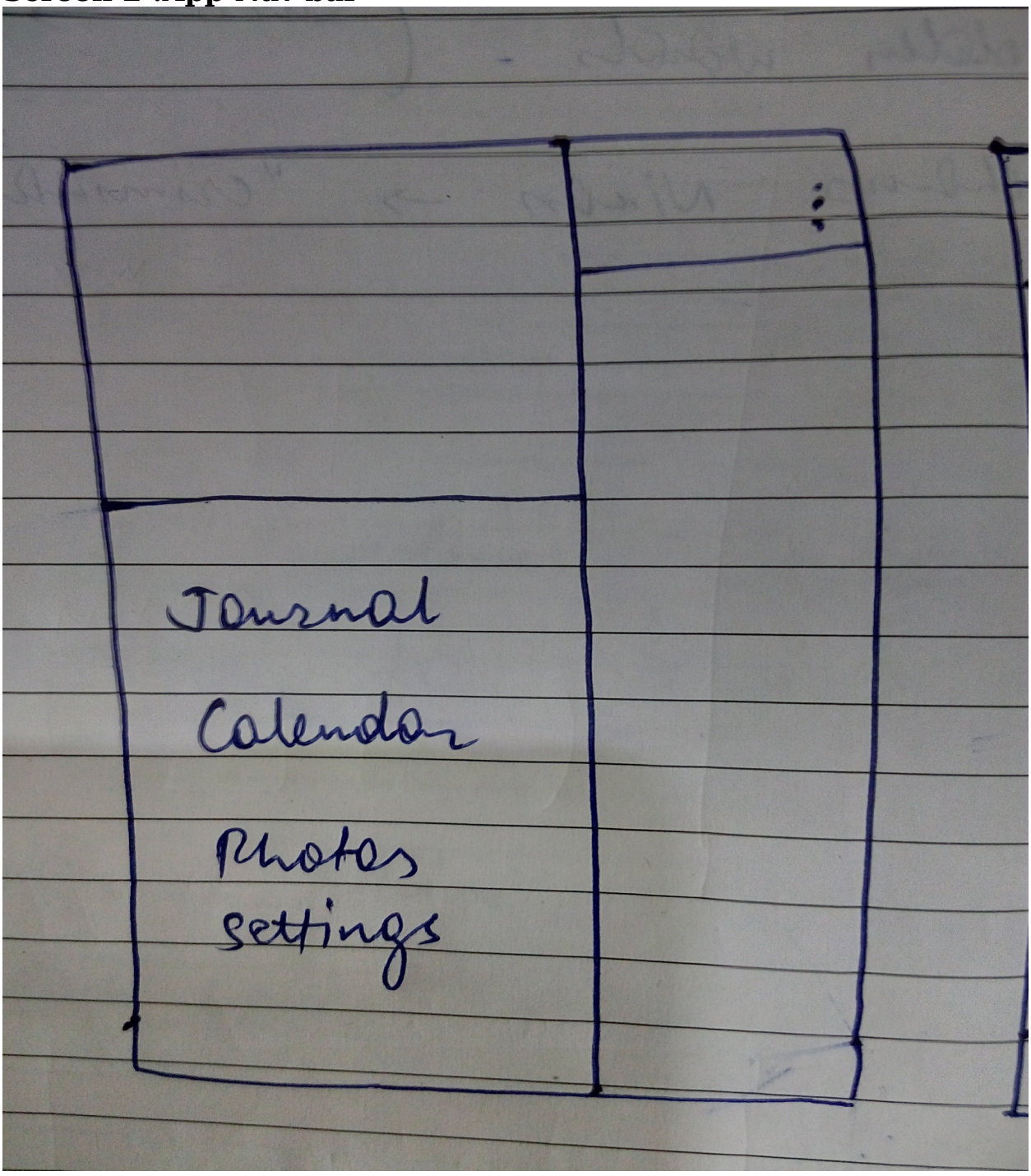
User Interface Mocks

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

Screen 1 : Login Screen

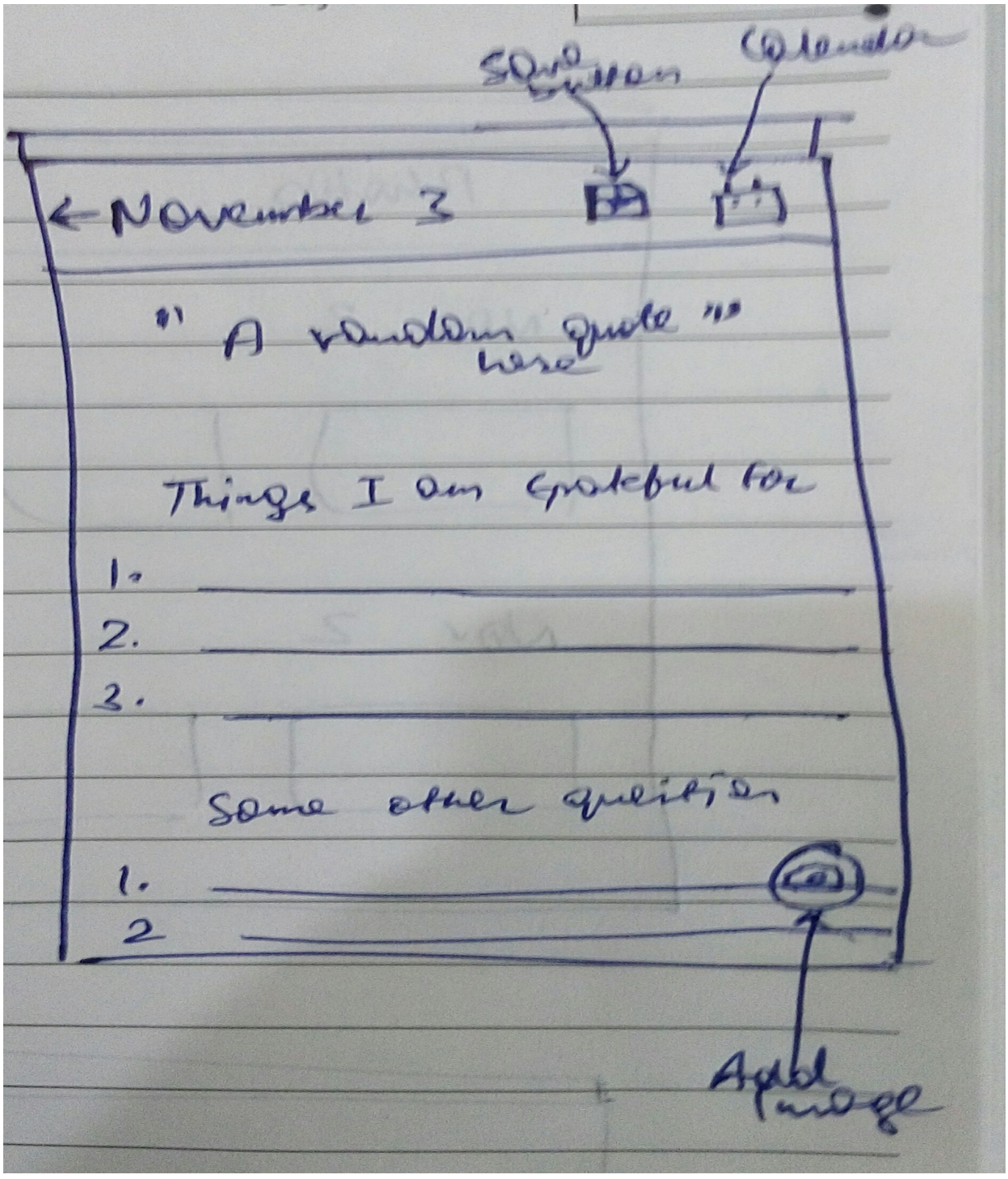


Screen 2 :App Nav bar



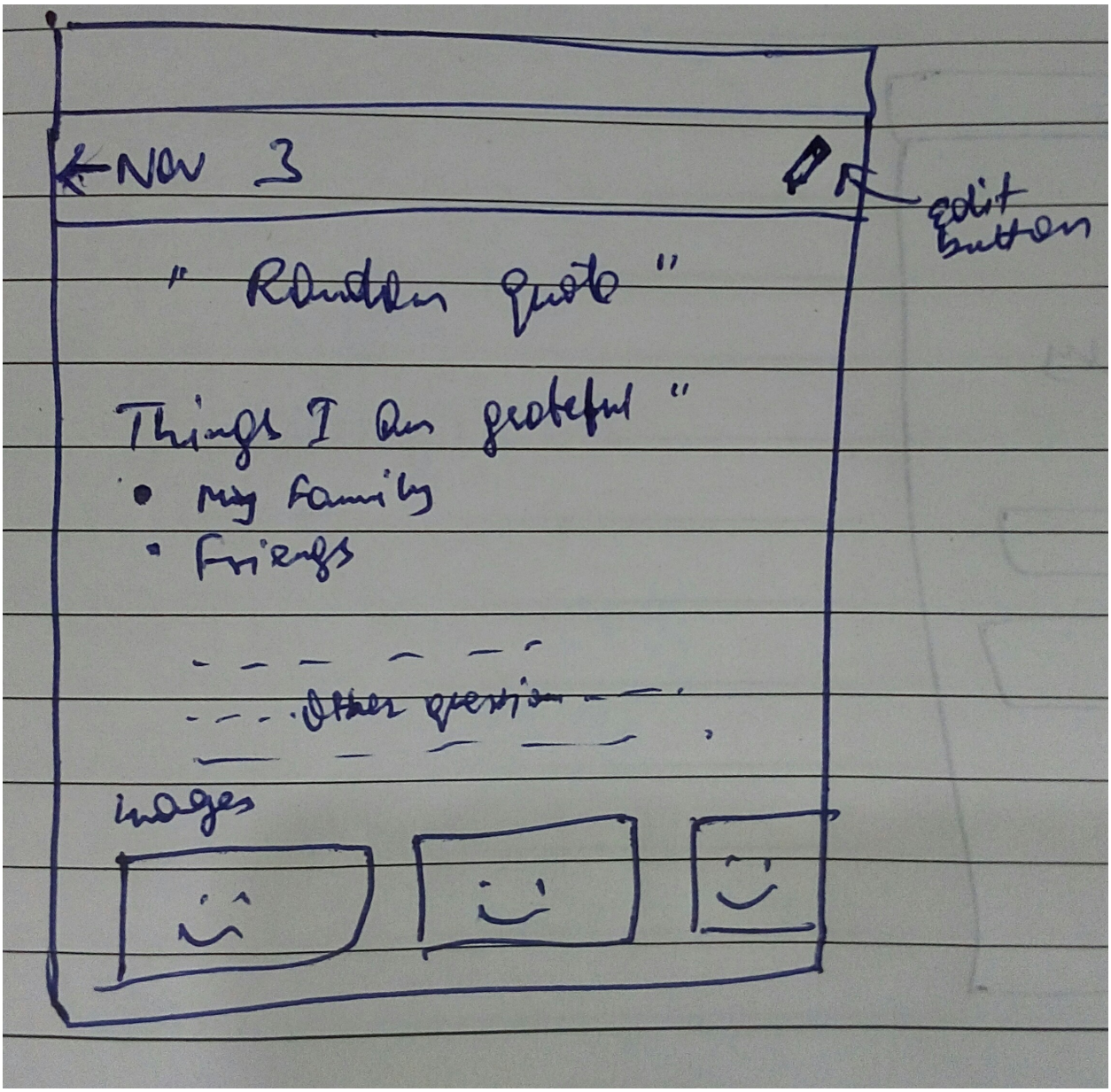
Screen 3 : Journal Entry Listview

Screen 4 : Edit Journal Entry

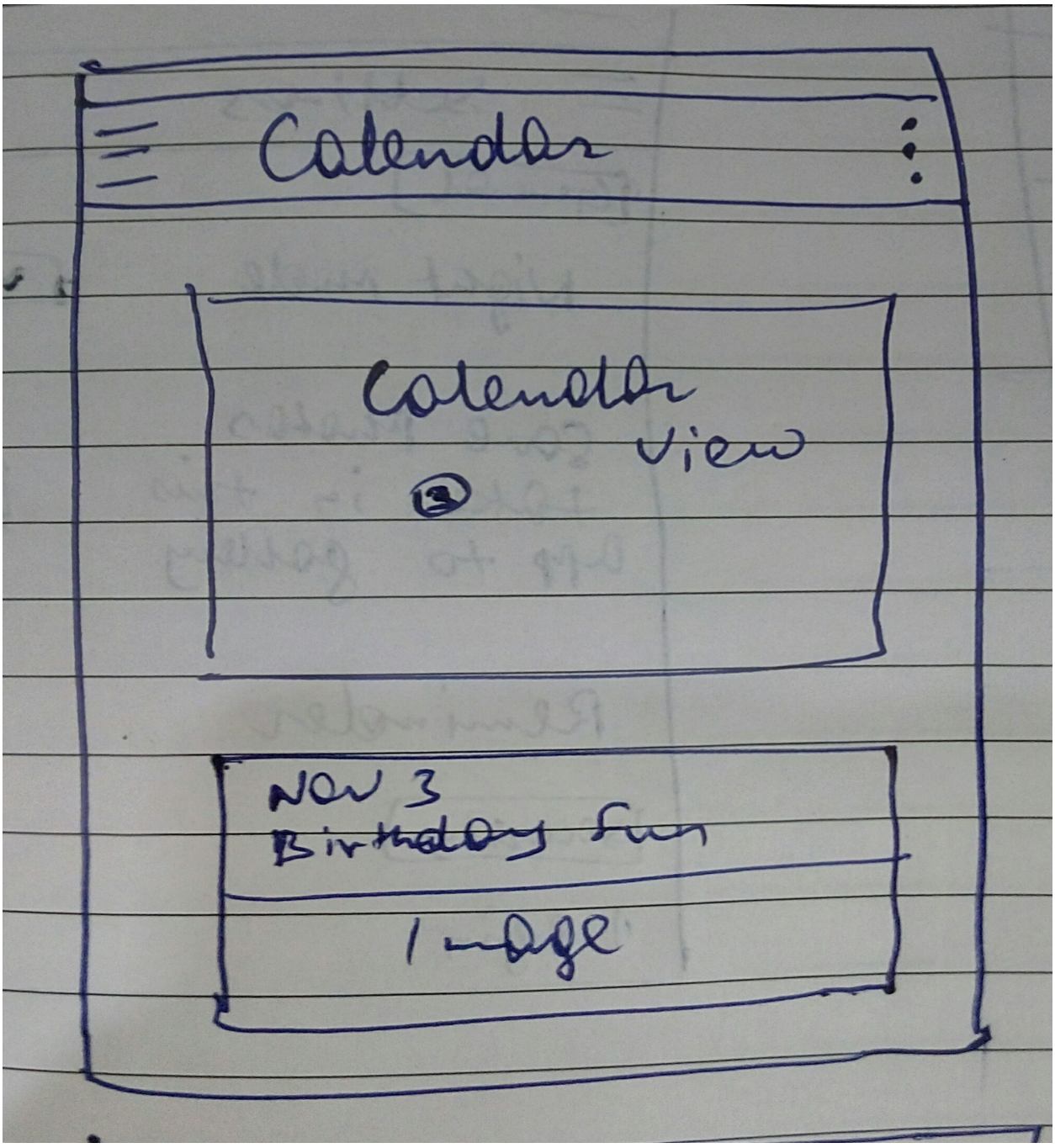


Calendar Button is used to choose date for the journal date . The default date is the current date.

Screen 4 : Disply Saved Journal Entry

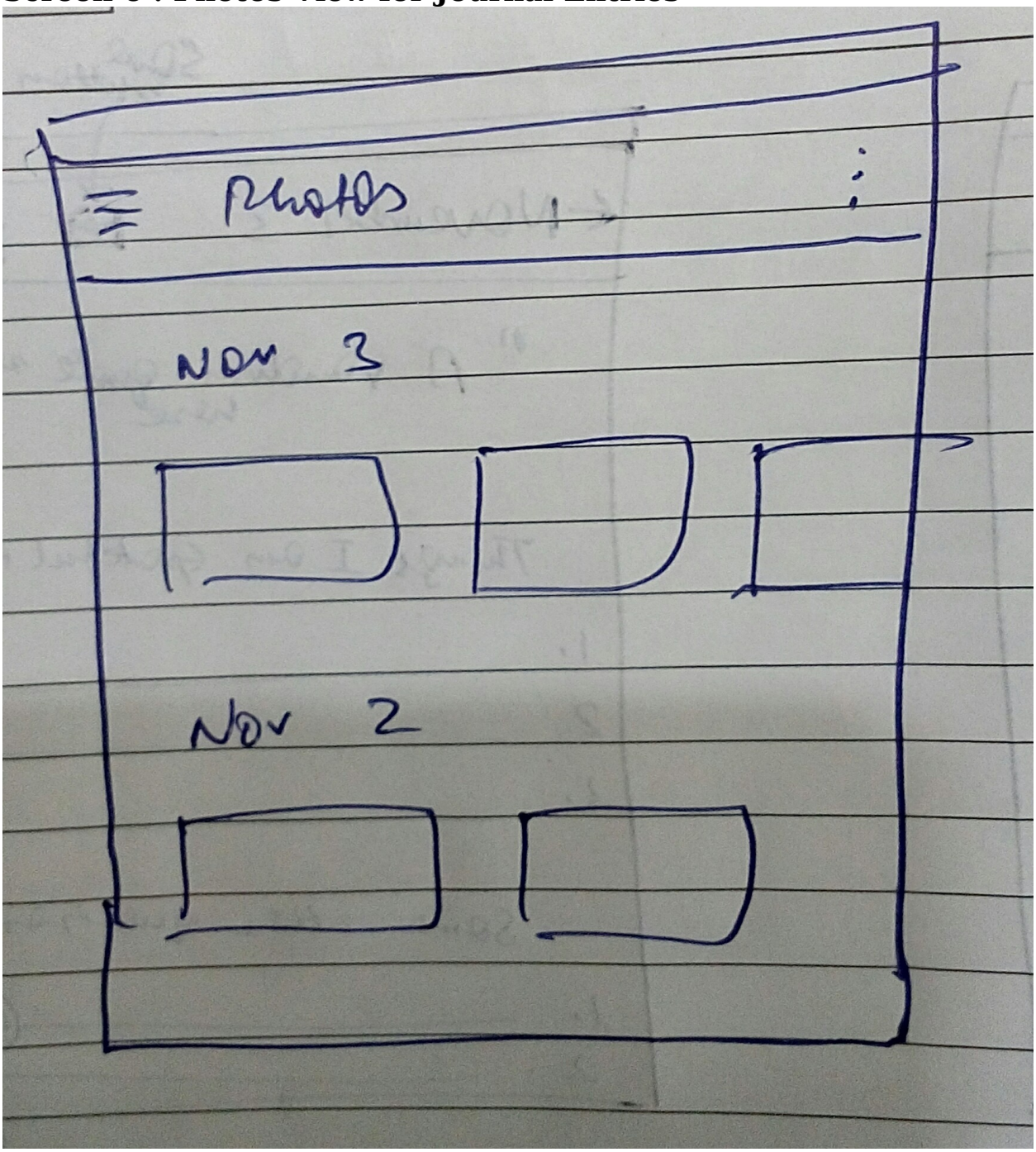


Screen 5 : Calendar View for Journal Entries

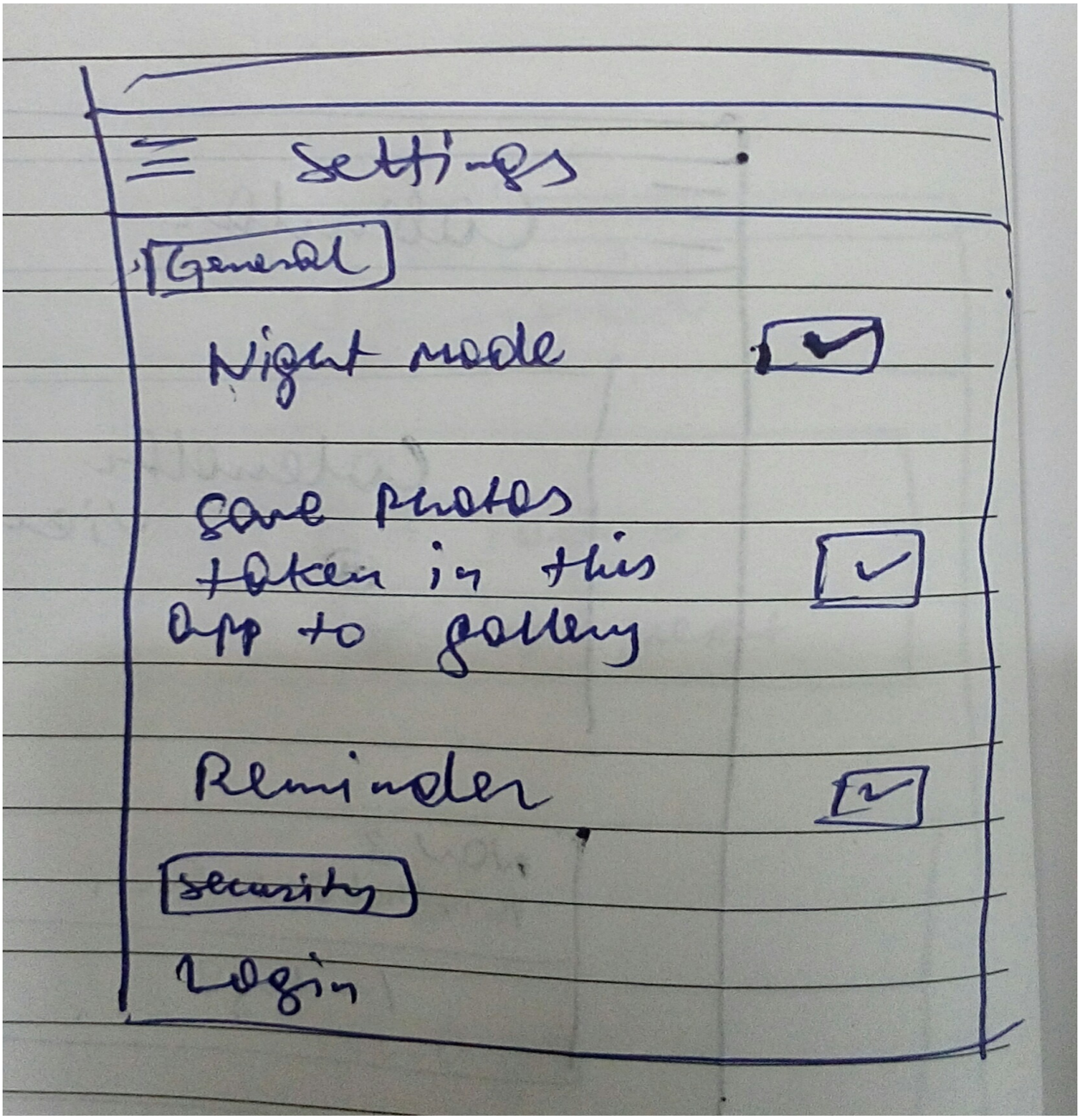


The user can choose a date from the calendar view and the journal entry card will be displayed below , which he can click on to edit or just view.

Screen 6 : Photos View for Journal Entries



Screen 7 : Settings Screen



Key Considerations

How will your app handle data persistence?

The app will store diary entries in the content providers with an underlying sqlite database. The username and password will be stored in shared preferences.

Describe any corner cases in the UX.

In the edit screen for the journal entry , when the user uses the calendar button (Located in the app bar right corner) , all the fields are populated with data , if the journal entry is previously added , so that the user can continue editing it.

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

1. Green robot event bus for communicating for events among different components in the app.
2. Card view for displaying diary entry cards.

Describe how you will implement Google Play Services.

1. I will use Google admob ,with banner ads and full screen sized adds.
2. I will use firebase analytics to analyze the user's use of the app like the time user does the entry. How often does he uses the app?

Next Steps: Required Tasks

Task 1: Project Setup

The steps required for setting up the project
are :

- Add latest version of green robot event bus library.
- Add card view library
- Create packages for device, events , data and UI.

If it helps, imagine you are describing these tasks to a friend who wants to follow along and build this app with you.

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Implement a navigation drawer to allow user to switch between screens
- Build UI for journal entry activity (Screen where user makes a Journal Entry)
- Build UI for journal entry display (Screen which shows a Journal Entry previously crated when the user selects an entry from the list view in the main activity.
- Build UI for calendar view where user can click a date and see the corresponding journal entry as card.
- Build a UI for a fragment that shows only users photos (added while making journal entry for that day) according to latest date.
- A settings activity which allows user to set preferences like theme.

Task 3: Implement Content Provider

Implement a content provider to store the journal entries.

Describe the next task. List the subtasks. For example:

- Create a sqlite helper subclass
- Create a Journal Contract for the content provider
- Create a JournalProvider class which subclass the Content Provider.

Task 4: Implement IntentService class to handle all background tasks .

I will need a IntentService class to handle all the background tasks mostly for the tasks related with database operations

- Create IntentSevice class
- Create different methods which are executed depending on the action of the intent received and interact with the Content Provider.

Task 5: Implement Event bus

Create different events and use these events to send data and notify activities and fragments to update UI as result of DB operations performed in the Intent service.

- Create required event POJOs
- Invoke these events in Intent service
- Subscribe these events inside activities or fragments.

Add as many tasks as you need to complete your app.

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