



8.5
/10

names?
project name?
class?
date?

Database and ERD

Database

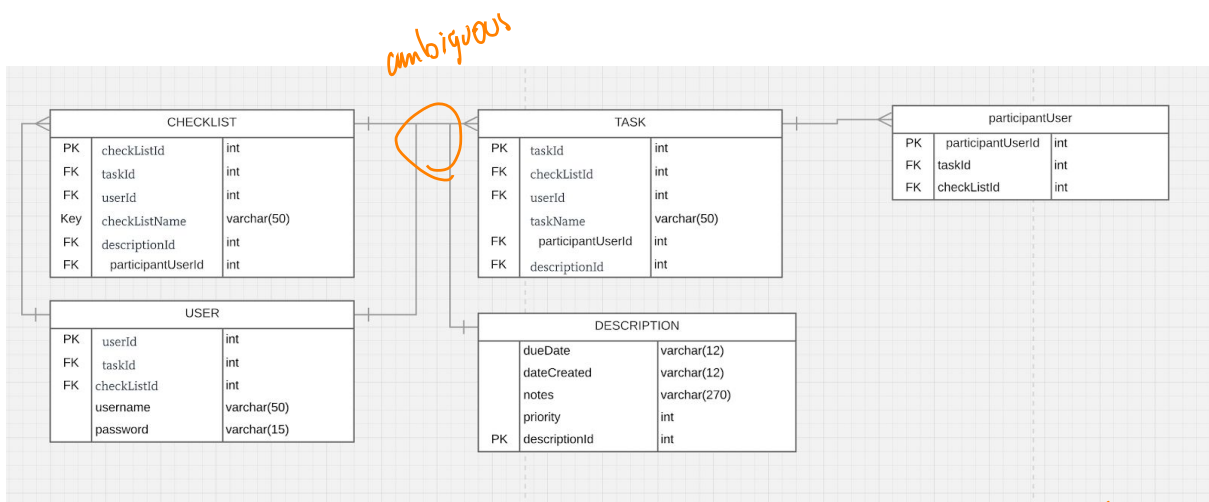
All the data will be stored and retrieved using the Firebase database which provides a real time database for users to sync data together.

Problem description - How will the data, task and checklist synchronize on different devices for every user ?

-Whenever user adds new data, that data will be pushed into Firebase database and will simultaneously send out the data to all the other users linked with the same database. All the users will pull data from the database whenever they connect with the internet and will also be able to manually request to synchronize. When the user is not connected to the internet and make changes offline, Firebase will allow user to save changes locally in cache and it will push online when user connects online.

In a scenario when two users make a change in the tasks or checklist, the data entered last will be pushed to all the users.

ERD



ambiguous

why is the
user in the
checklist and
task, but not
the participant user?
just
one

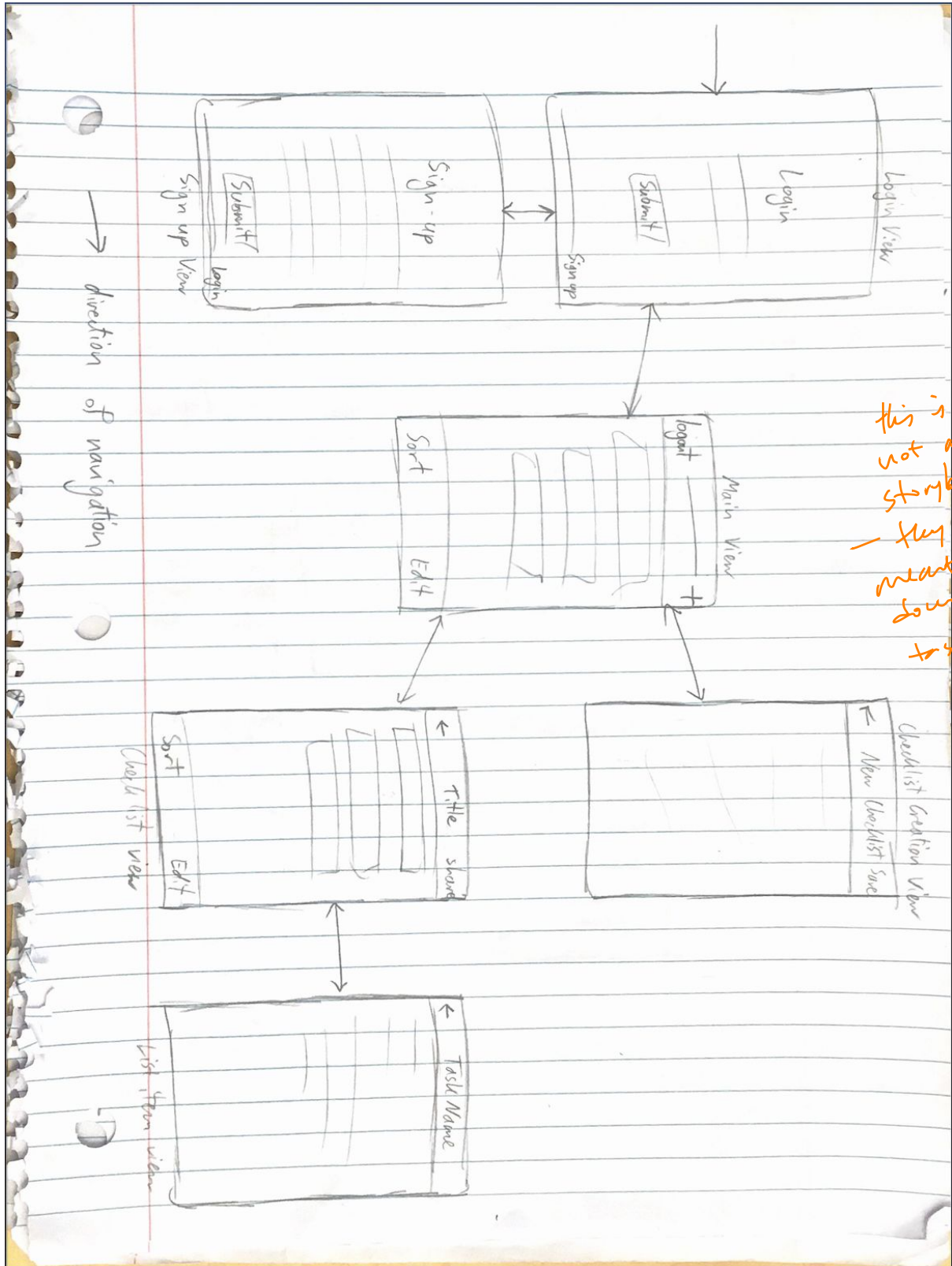
1:1 relationship b/w
checklist + description => same table

I am confused by
this data model.
you may need to re-think
it.

what are the key tasks?

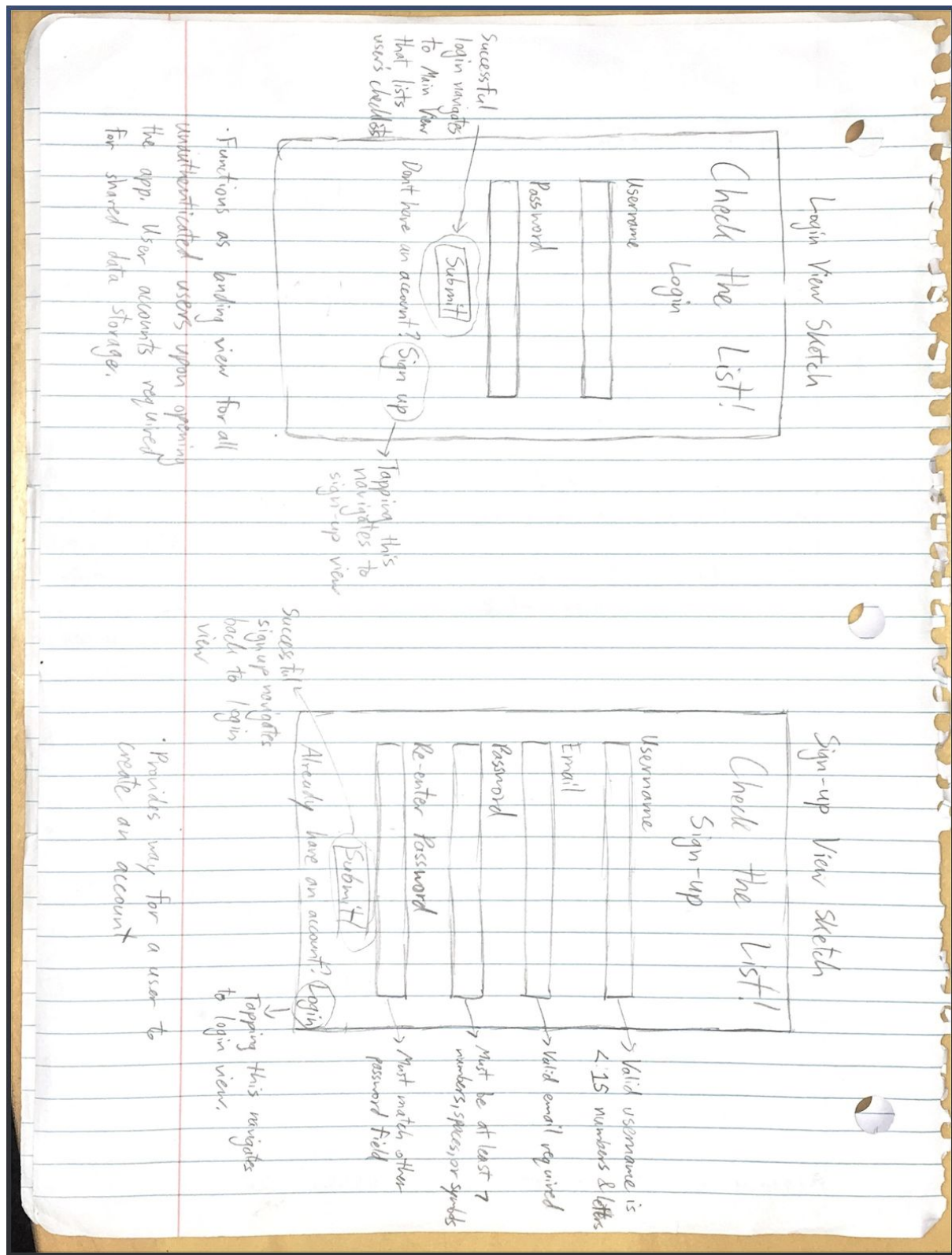
Interface and Front End Design

Storyboard and Navigation



this is not a storyboard
— they are meant to be used
no times to task

Login Page and Sign up



Main page after login

- create checklist
- show checklist details → navigate away or accordion:
- list view
- board view

CS 455 - Design for Project

is a project a checklist?

- Display all checklists for a user
 - Information shown:
 - list of all projects user was/is a part of
 - For each project, show:
 - project name
 - deadline
 - whether completed or not
 - if not completed, percentage done
 - List sorted by emergence of deadline for not completed, and date completed for the completed projects (from most to least recent)

Your Checklists

+ Add New Checklist

Title	Completion: 80%		
	Due: 8 Oct, 2018	<input type="checkbox"/>	
	Due: 28 Oct, 2018	<input type="checkbox"/>	
	Completed: 28 Sept, 2018	<input checked="" type="checkbox"/>	} Completed Slightly Greys
	Due: 29 Sept, 2018		
	Completed: 25 Sept, 2018	<input checked="" type="checkbox"/>	
	Due: 26 Sept, 2018		
Sort			

Opens Accordion Style

Sort by:
 -
 -

Table View →
Sections:
i) In Progress
ii) Completed
iii) Cancelled

Retrieved from datamodel:
- titles, deadlines, completed date, completed bool, completion percentage

*Note: No task deletion allowed, as other users would wonder when it went. Instead, a task can be cancelled

Cancelled grouped together under completed on view red → sorted by date completed/cancelled

Title Cancelled Due ☒

what are the sort options?

This page shows pre-existing checklist, the page which shows pre-existing task will be entirely same

Adding New Checklist and Task

New Checklist View

Purpose: Create a new checklist and define basic information, that being the title, due date, a description, and any other participants if applicable

← Returns to main view with no change to the datamodel

New Checklist Submit → Returns to main view and new checklist will be displayed

Title

Description

Due Date

Participants

Tap to add a username, brings up a textbox, eg. Enter username:

over the view

typing in mobile environment is not good → select from list of accounts

This page allows user to add new checklist. The user will be able to use the same page when adding new task with minor modifications.

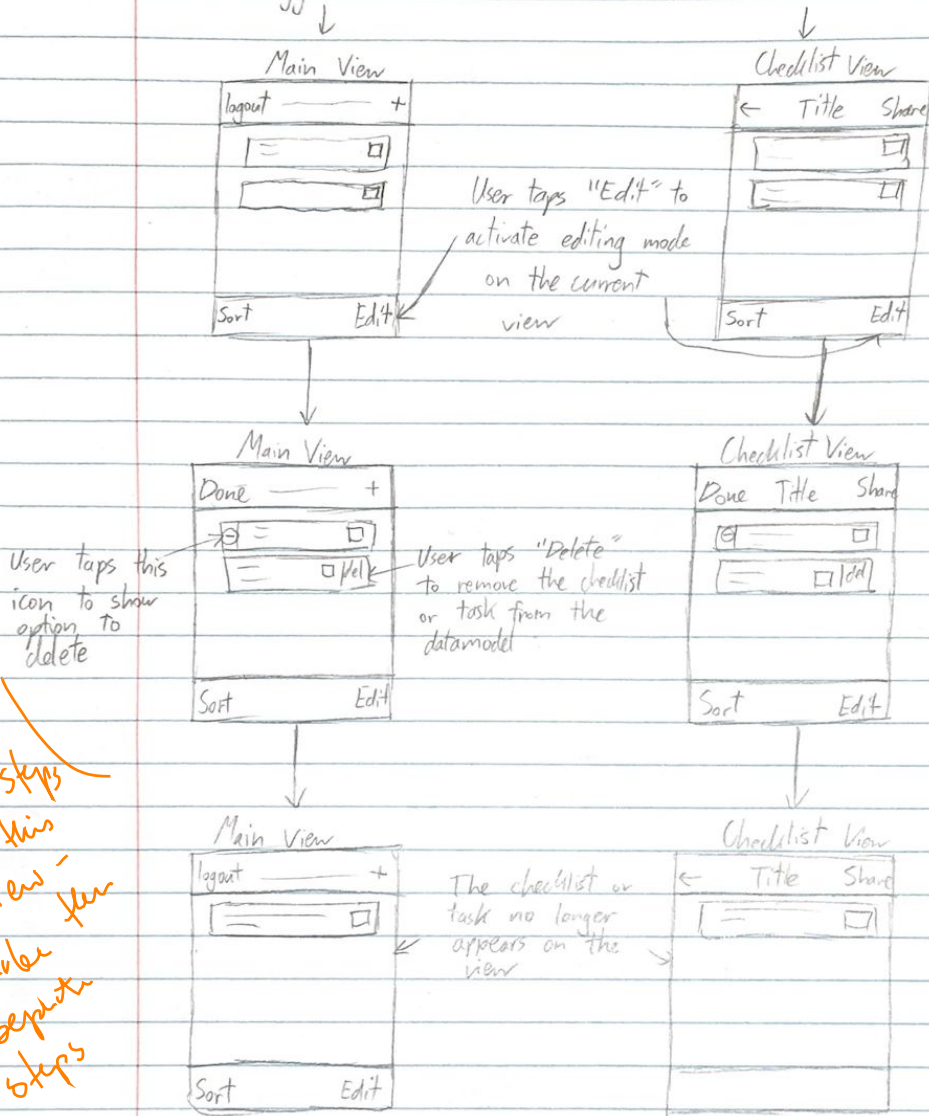
User Cases -

Use case:

• User wants to delete a checklist/task

Prior condition:

• User logged in and checklist/task exists



• Use case:

User wants to create a checklist

• Prior condition:

User has an account and is logged in



Main View

A hand-drawn sketch of a mobile app's main view. At the top, it says 'logout Your Checklists +'. Below this is a list item with a title bar, a description box, and a 'P' icon. At the bottom, there are two buttons labeled 'Sort' and 'Edit'.

← User taps "+" to create a checklist, navigates to checklist creation view



Checklist Creation View

• User enters all relevant information, in this case they do not add additional participants at this time

A hand-drawn sketch of a mobile app's checklist creation view. At the top, it says 'New Checklist Save'. Below this are four input fields: 'Title', 'Description', 'Due Date', and 'Participants: None'. The 'Participants: None' text is circled in orange.

← User taps "Save" to enter all given details into datamodel, returns to main view

How are these being entered?
That is important design info.

Main View

A hand-drawn sketch of the mobile app's main view after saving a new checklist. It shows the same layout as the first main view, but with an additional checklist item added to the list. This new item has a title bar, a description box, and a 'P' icon. The 'Due Date' field is highlighted with a box.

New checklist is listed, positioned by emergence of due date

Use case:

User wants to share the entire checklist

Prior condition:

The present user is logged in and the user they wish to add exists, checklist exists

