CIS 3060 Group Project

1. Project Description

Our Group Name is the "Los Amigos" and the team members include Michael Campos, Edrick Ramiento, Joey Tran, Danny Olivas, and of course Kyle Alfonso. We used to meet up on Thursdays during class time when Professor Huarng would cancel class. As time went on, we couldn't meet up anymore due to an existential crisis that came to us at such an unexpecting time. Still, we can message one another on mobile/online apps such as discord and iMessage which brought such an amazing idea to our minds.

At first, our group project was basically going to be about organizing the Cal State LA bookstore website since we had no other ideas to start a project on. As a group, with an added member, we decided to change our topic to creating a To-Do List application for college students (To-Do-Dles). We felt that this was more fitting as, obviously, we are college students and life may not be the easiest thing to deal with at times. An application that would provide major functions such as:

- · Create tasks
- · Mark completed tasks
- · Check calendar
- · Notifications
- · Organize Tasks

Would hopefully try and alleviate the stress students may accumulate from not being able to properly manage their time, both at home and at school. Being able to plan out your days/weeks ahead of time would benefit consumers as they would be able to see daily notifications on their mobile or portable devices and check off what they were able to accomplish for the day.

2. Project Plan (Project 1)

I. Introduction

    A. Scope and purpose of document

B. Project Objectives

    1. Objectives

        To make
everyone's day
easier by
providing
seamless and
consistent
reminders for their
day, throughout
the day so they
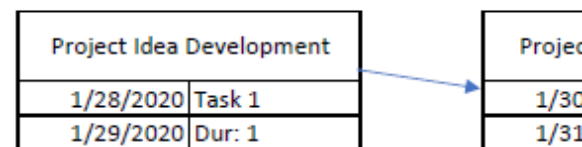can focus on the
tasks at hand.

    2. Major functions

- Create Task
- Mark completed
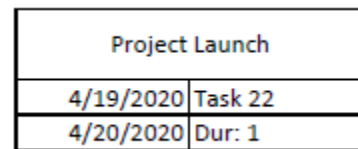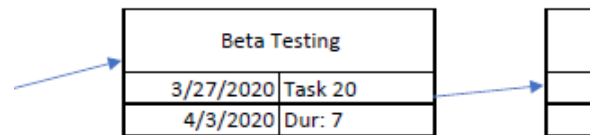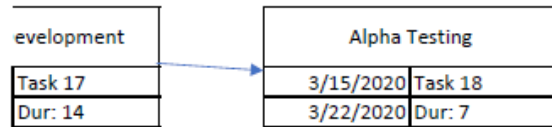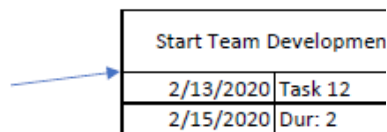- Organize Tasks
- Check Calendar
- Notifications

II. Schedule

A. Project work breakdown structure

Task No.	Description	D
1	Project Idea Development	
2	Project Concept Revision	
3	Project Scheduling	
4	Budget Planning	
5	Budget Approval	
6	Aquire Equipment	
7	Aquire Software	
8	Testing Equipment and Software	
9	Hire Upper Level Personnel	
10	Hire Lower Level Personnel	
11	Set Scope and Goals	
12	Start Team Development	
13	Frontend Design Sketch	
14	Backend Coding	
15	Status Update	
16	App Revision	
17	Protoype Development	
18	Alpha Testing	
19	Prototpye Revision	
20	Beta Testing	
21	Product Launch	
22	Progress monitoring	
23	Future Updates	

B. PERT chart

Project Idea Development		Projec
1/28/2020	Task 1	1/30
1/29/2020	Dur: 1	1/31

Status Update		App Revis...
2/19/2020	Task 15	2/21/2020 Tas...
2/21/2020	Dur: 2	2/28/2020 Du...

Project Scheduling	
2/1/2020	Task 3
2/5/2020	Dur: 4

evelopment		Alpha Testing	
Task 17		3/15/2020	Task 18
Dur: 14		3/22/2020	Dur: 7

Budget Planning	
2/1/2020	Task 4
2/5/2020	Dur: 4

Beta Testing	
3/27/2020	Task 20
4/3/2020	Dur: 7

qupment
Task 6
Dur: 2

Project Launch	
4/19/2020	Task 22
4/20/2020	Dur: 1

C. Gantt chart

ioftware
Task 7
Dur: 2

Testing Equipr...
2/9/202...
2/10/202...

vel Personnel
Task 9
Dur: 4

vel Personnel
Task 10
Dur: 8

Fantastic 4
Group Members: Danny Olivas, Michael Campez, Joey Tran, ...

TASK	ASSIGNED TO	START	END
Inception			
Task 1	Project Idea Development	1/28/20	1/29/20
Task 2	Project Concept Revision	1/30/20	1/31/20
Task 3	Project Scheduling	2/1/20	2/5/20
Task 4	Budget Planning	2/1/20	2/5/20
Task 5	Budget Approval	2/5/20	2/7/20
Task 6	Acquire Equipment	2/7/20	2/9/20
Task 7	Acquire Software	2/7/20	2/9/20
Task 8	Testing Equipment and Software	2/9/20	2/10/20
Task 9	Hire Upper Level Personnel	2/6/20	2/10/20
Task 10	Hire Lower Level Personnel	2/8/20	2/13/20
Task 11	Set Scope and Goals	2/13/20	2/16/20
Task 12	Start Team Development	2/13/20	2/15/20
Task 13	Frontend Design Sketch	2/15/20	2/19/20
Task 14	Backend Coding	2/15/20	2/19/20
Task 15	Status Update	2/19/20	2/21/20
Task 16	App Revision	2/21/20	2/28/20
Task 17	Prototype Development	2/29/20	3/14/20
Task 18	Alpha Testing	3/15/20	3/22/20
Task 19	Prototype Revision	3/23/20	3/26/20
Task 20	Beta Testing	3/27/20	4/3/20
Task 21	Final Revisions	4/4/20	4/18/20
Task 22	Product Lauch	4/19/20	4/20/20

Project Start: Tue, 1/28/2020
Display Week: 1

Start Team Development	
2/13/2020	Task 12
2/15/2020	Dur: 2

III. Project Resources

A. People

- Graphic Designer

- App Developers

- Marketing and Sales Team

- Human Resources

- Project Manager

- Accounting Team

- QC/QA/Tester

B. Hardware and software

- Cellular Device

- Keyboard

- Mouse

- Monitor

- PC

- Mac

- Headset

- Java
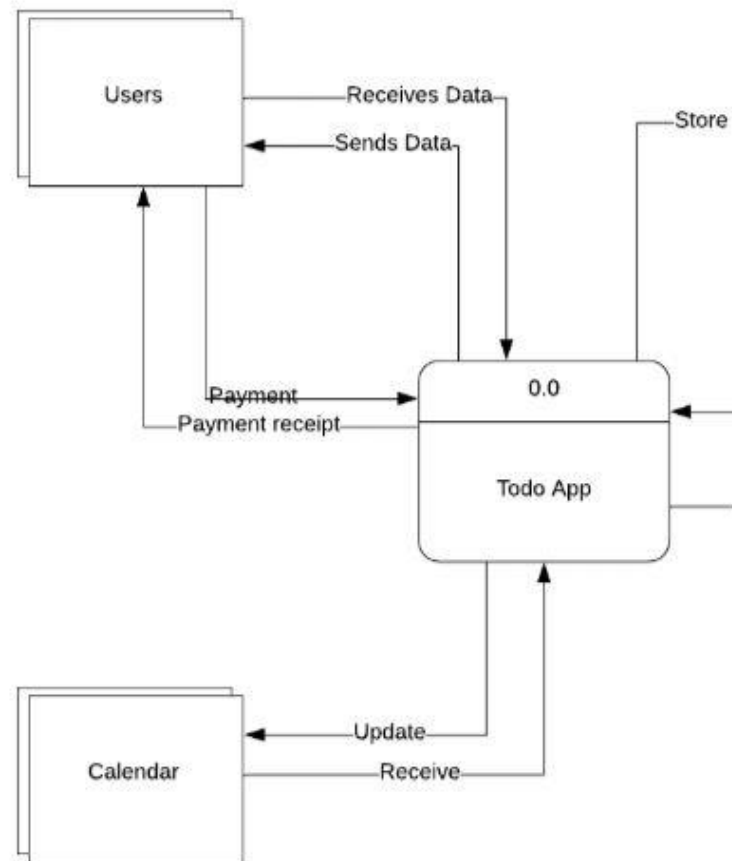
- Python

- Windows 10

- Xcode
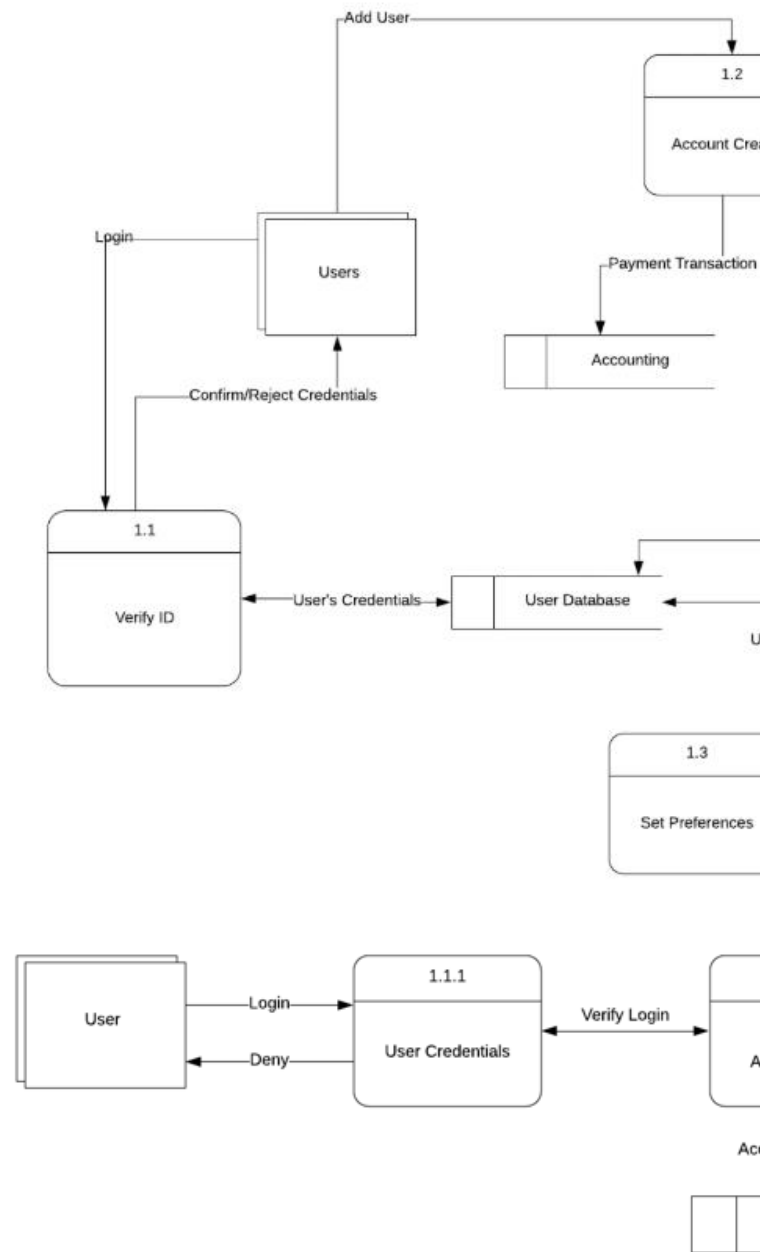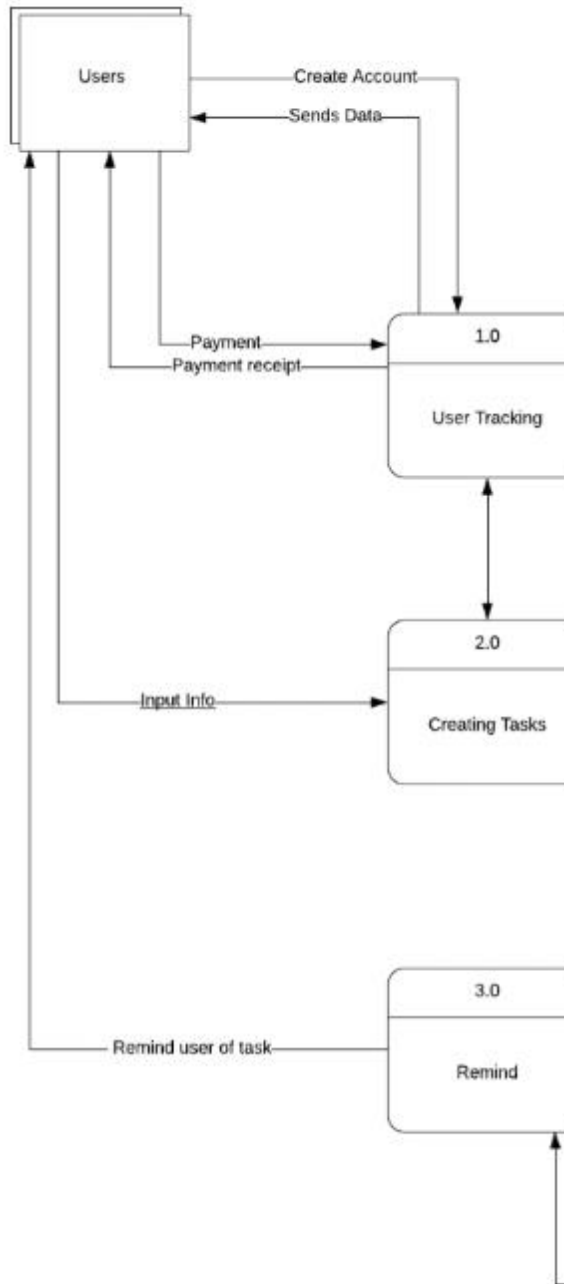
C. Special resources

- Apple Developer Membership - $99

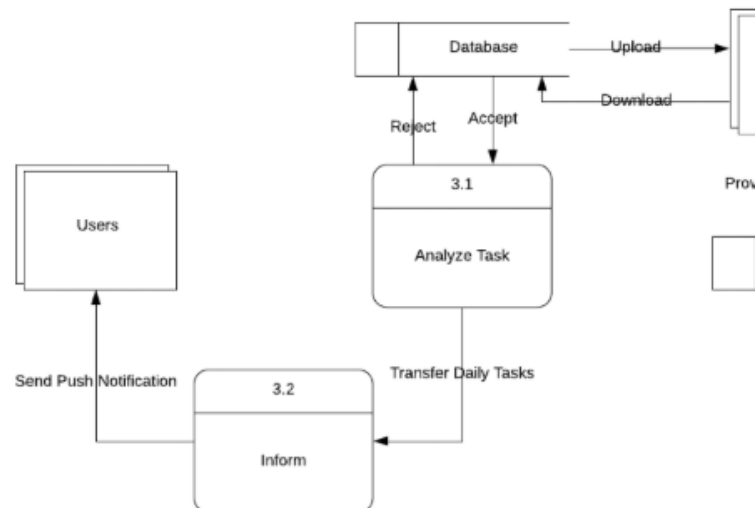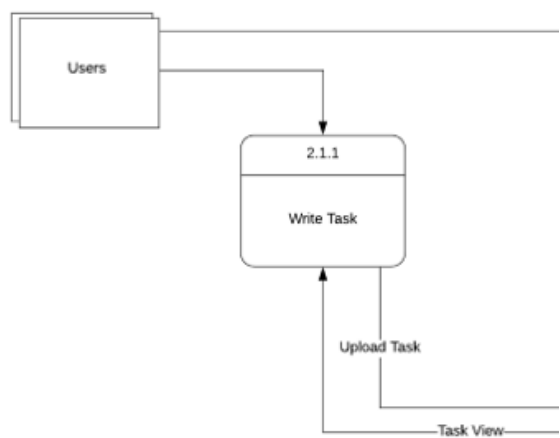- Google Play Developer Account - $25

- Website Domain - $12
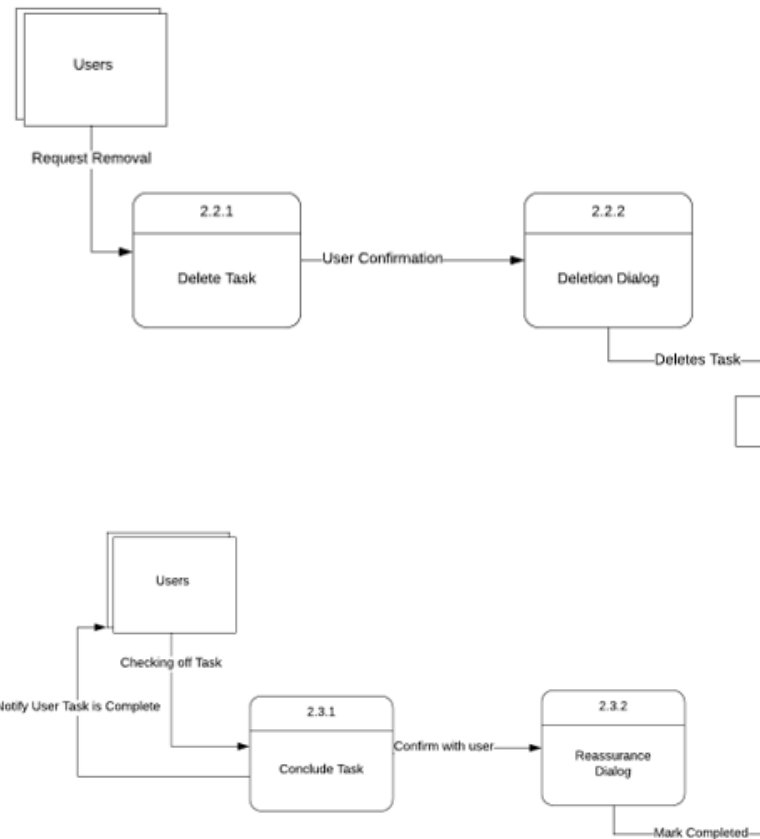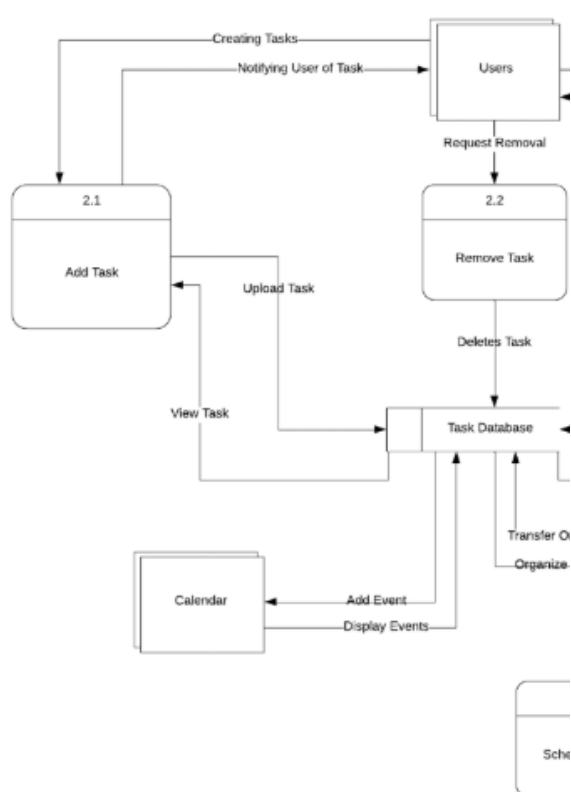
- Website Host - $30

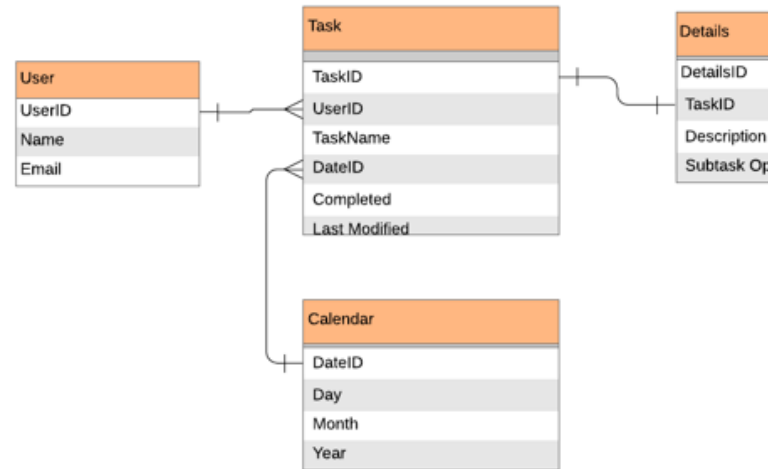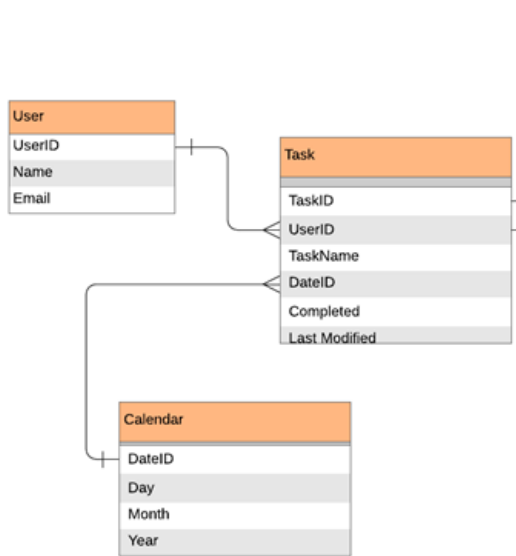## 3. Requirement Analysis (Project 2)
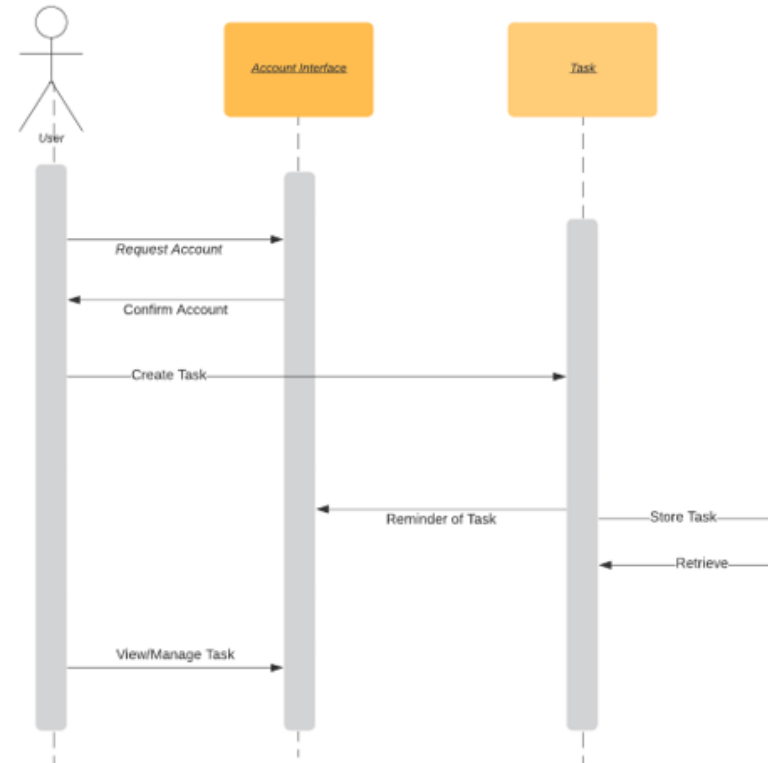
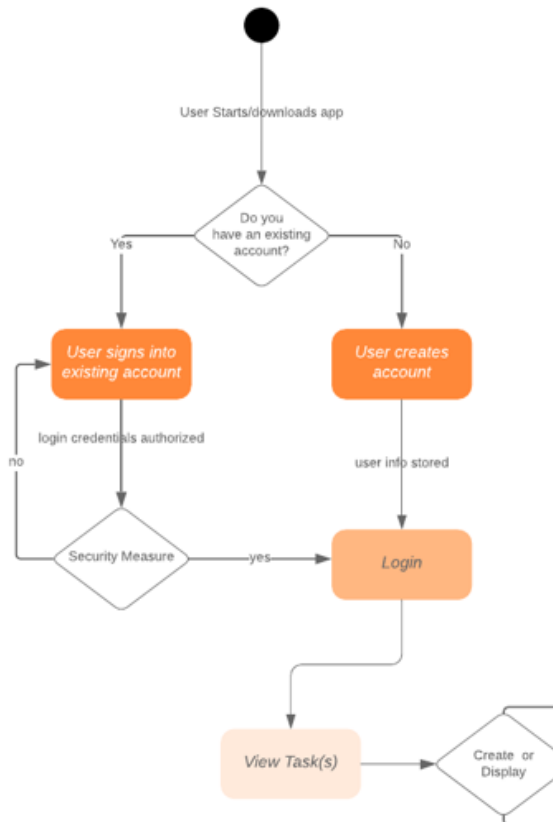- Context Diagram of the system

- Data Flow Diagrams

Users ──Create Account──
──Sends Data──

──Add User──────────────

1.2
Account Crea

──Login────── **Users**

──Payment Transaction

| | Accounting |

──Confirm/Reject Credentials──

──Payment──
──Payment receipt──

1.0
User Tracking

1.1
Verify ID

──User's Credentials── | | User Database |

2.0
Creating Tasks

──Input Info──

1.3
Set Preferences

3.0
Remind

──Remind user of task──

User ──Login──→

1.1.1
User Credentials

──Deny──

──Verify Login──→ | A |

Acc

Data Flow Diagram

Diagram 1 (top left):

Creating Tasks → Users
Notifying User of Task → Users
Request Removal (Users → 2.2)

2.1 Add Task
2.2 Remove Task

Upload Task
Deletes Task
View Task
Task Database

Transfer O...
Organize...

Calendar
Add Event
Display Events

Sch...

Diagram 2 (top right):

Users
Request Removal

2.2.1 Delete Task — User Confirmation → **2.2.2 Deletion Dialog**
Deletes Task

Diagram 3 (middle right):

Users
Checking off Task
Notify User Task is Complete

2.3.1 Conclude Task — Confirm with user → **2.3.2 Reassurance Dialog**
Mark Completed

Diagram 4 (bottom left):

Users

2.1.1 Write Task
Upload Task
Task View

Diagram 5 (bottom right):

Database — Upload →
Download
Reject | Accept

3.1 Analyze Task

Users
Send Push Notification
Transfer Daily Tasks

3.2 Inform

Prov...

- Entity Relationship Diagram

User
- UserID
- Name
- Email

Task
- TaskID
- UserID
- TaskName
- DateID
- Completed
- Last Modified

Calendar
- DateID
- Day
- Month
- Year

User
- UserID
- Name
- Email

Task
- TaskID
- UserID
- TaskName
- DateID
- Completed
- Last Modified

Details
- DetailsID
- TaskID
- Description
- Subtask Op

Calendar
- DateID
- Day
- Month
- Year

- UML Diagrams

User Starts/downloads app

Do you have an existing account?

Yes

No

User signs into existing account

User creates account

login credentials authorized

user info stored

no

Security Measure

yes

Login

View Task(s)

Create or Display

User

Account Interface

Task

Request Account

Confirm Account

Create Task

Reminder of Task

Store Task

Retrieve

View/Manage Task

User Starts/downloads app

Waiting for Login — Login Authorized/Rejected →

Request Logout

Logout

Show/Edit Tasks

To-Do List System

Login

Request

Set Tasks

Input

Customer

Read

Changelogs

Update

Task

Syst

4. System Design (Project 3)

- Structure Charts

To-do list

Login function

user connect enter credentials

Accept or Deny User Login

create

store task

Create a Task

query

adjust tasks

notify user

create

Check for Duplicate Task

Keep or Overwrite

Create to-do list

store task

task stored

Database

user info update user data

User Specific Storage

- Module Specification:

User Log In

IF Username found in To-Do-Dles

database and Password matches

   Log the user in

ELSE

IF incorrect 5 + times

   Account locks for 15 minutes

Create Task

IF user has task to enter

   Add task

ELSE

IF user has no task to enter

   No task is added

Edit Task

If user has to edit task the user sees tasks

that are already created

   Edit Task

ELSE

IF user does not need to edit task

   No task is edited

Delete Task

If user has to delete task the user sees

tasks that are already created

   Delete Task

ELSE

IF user does not need to delete task

   No task is deleted

Reminder/Notification

IF user has something due

   Reminds the user

ELSE

IF user does not have anything due

   User does not get reminders

View Task

IF user wants to view task

   View Task

ELSE

IF user does not view task

   Task is not viewed

Freemium or Premium

IF user wants to access To-Do-Dles for

free

   User uses To-Do-Dles Freemium

ELSE

IF user wants to access To-Do-Dles cool

features

   User uses To-Do-Dles Premium

Appearance

IF user wants to change the appearance

Change appearance to Dark Mode

ELSE

IF user does not want to change the

appearance

User leaves at stock appearance
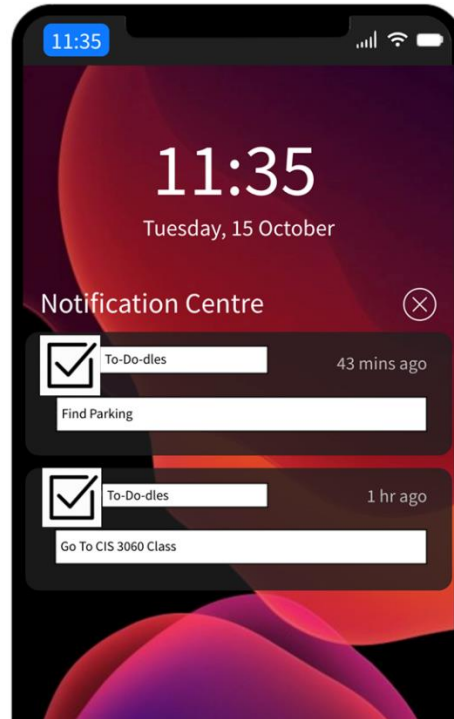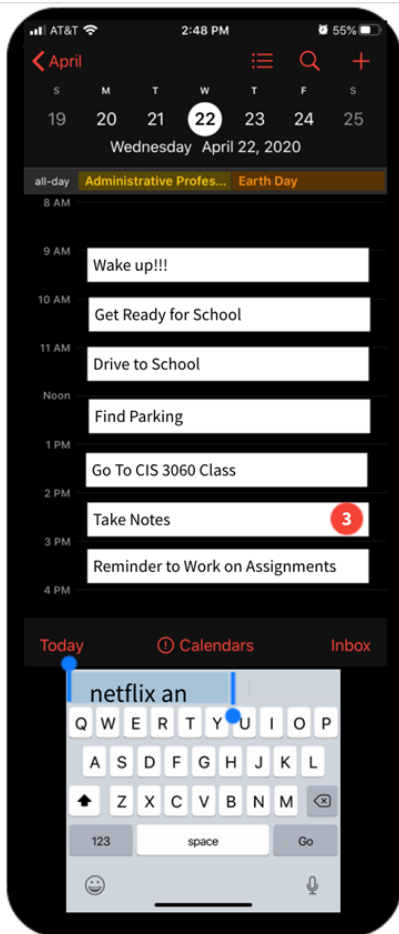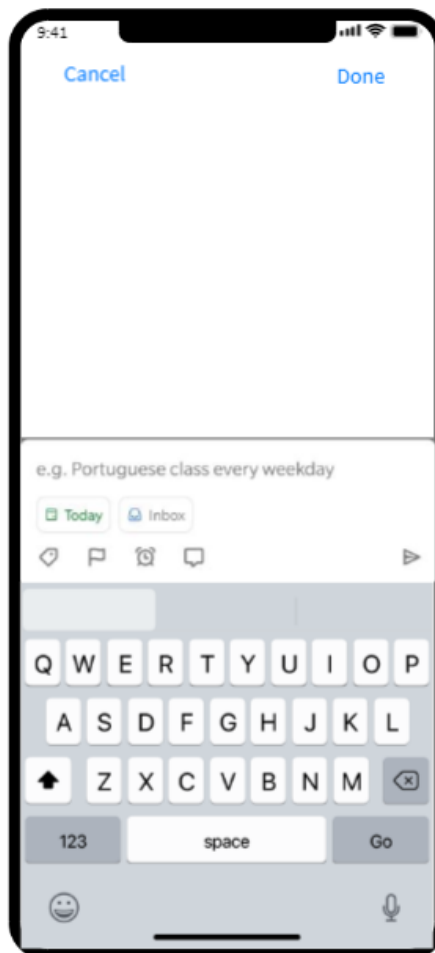
- Interface Design:

Start Page

Sign Up Page

9:41

To-Do-dles

Username
Password

Cancel   Sign-in

Create new account

 Sign in with Apple

Q W E R T Y U I O P

A S D F G H J K L

Z X C V B N M

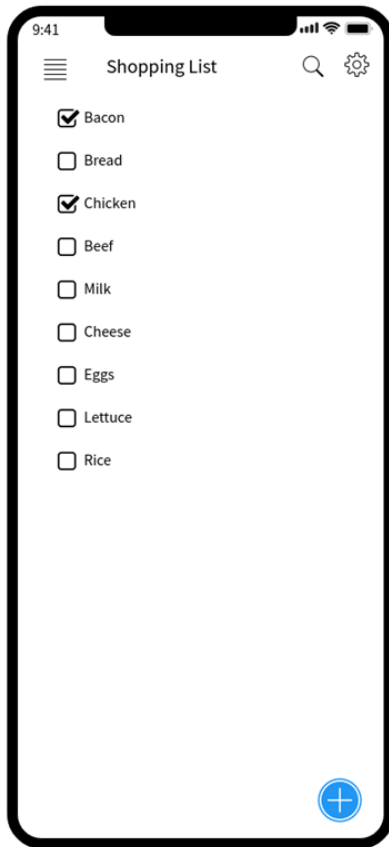123   space   Go
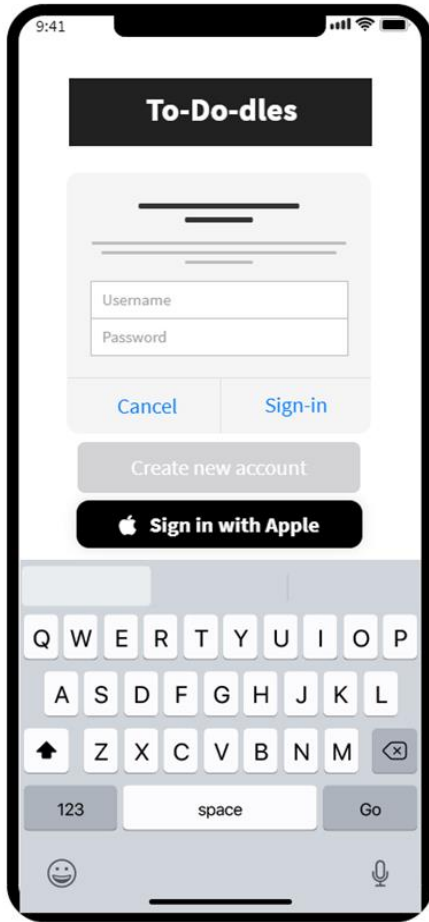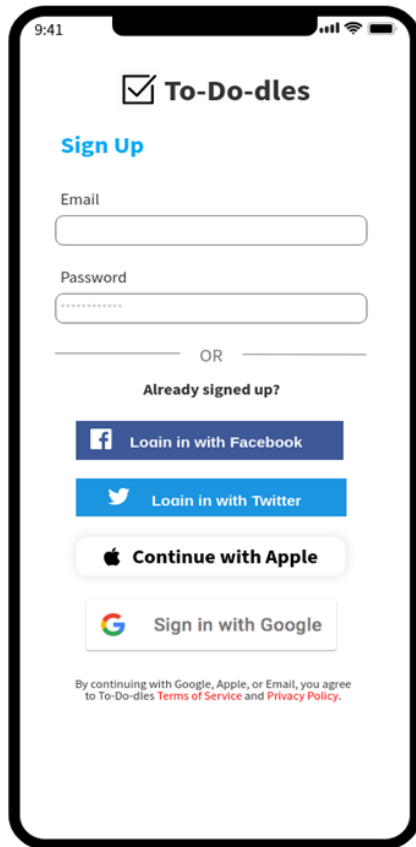
Welcome Screen

Calendar

Welcome to
To-Do-dles

Notification Screen

Creating Task

Shopping List

Settings

Shopping List
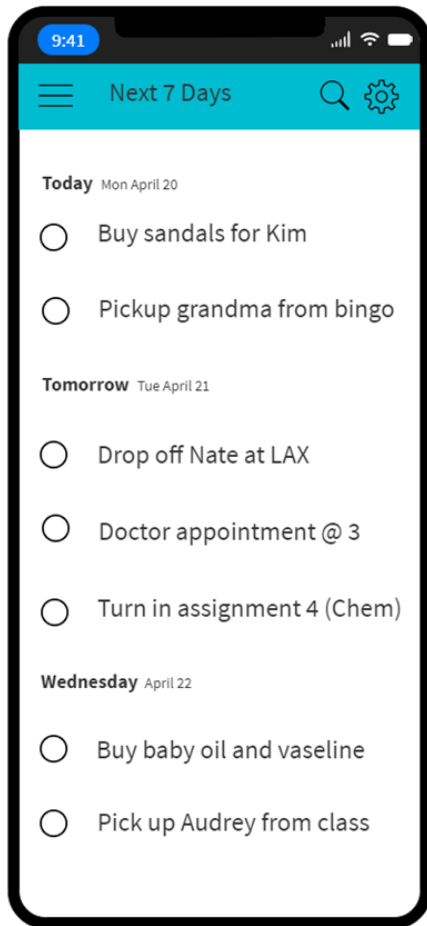
- ☑ Bacon
- ☐ Bread
- ☑ Chicken
- ☐ Beef
- ☐ Milk
- ☐ Cheese
- ☐ Eggs
- ☐ Lettuce
- ☐ Rice

Menu

Weekly Viewer

Inbox

Today

Next 7 Days

Calendar

Shopping List

Chores
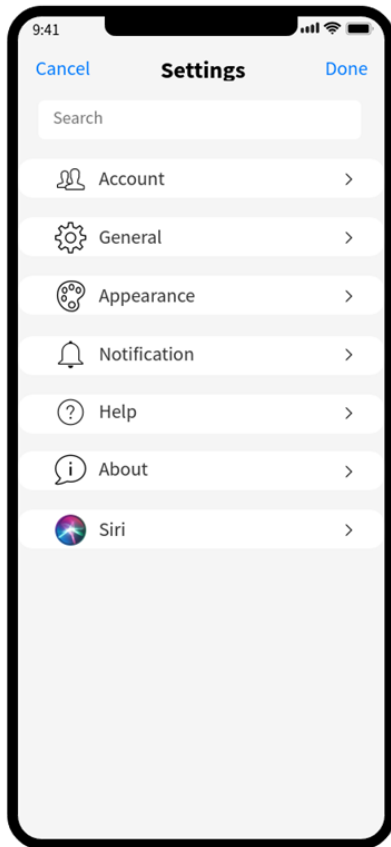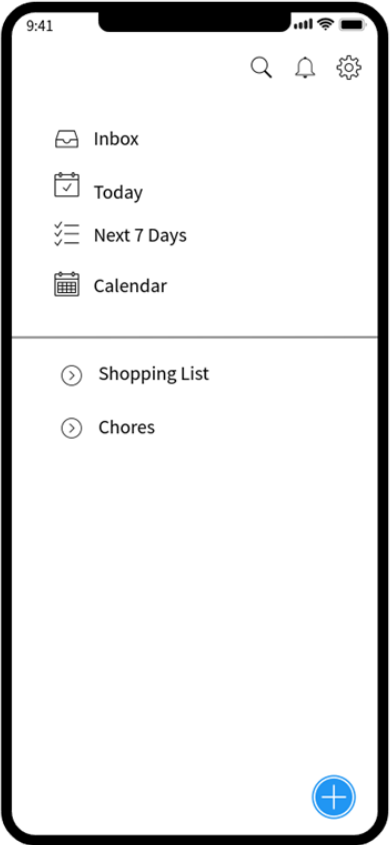
5. Implementation/Prototype (Project 4)

Develop a working system based on the results of analysis and design phases and turn in:

- A link to the prototype

Ramiento, Joey Tran, Danny

Olivas, Kyle Alfonso

4. **System Design** - Michael

   Campos, Edrick Ramiento, Joey

   Tran, Danny Olivas, Kyle

   Alfonso

5. **Implementation/Prototype** -

   Michael Campos, Edrick

   Ramiento, Joey Tran, Danny

   Olivas, Kyle Alfonso