

Final Project

Name of Application :

College Reminder

Group:

Alejandro Casanas
Anthony Colas
Michael Bentz



Technical Manual

Summary of your original project proposal

Purpose :

Ever feel overwhelmed by how many different applications you have to utilize in order to manage everything for college? Ever want your academic calendar, friendly reminders, notetaking, and campus map all in one place? Now you can with the *College Reminder*. The main purpose of this application is to better manage your tasks and school assignments while only using one app. We want to keep it simple for students, especially since there's enough worrying to do with tests and projects. Not only can you take notes on this app, but you can now accomplish all the basic necessities a college student has without even switching between apps. We all have those days when you have a million things to do and you don't even know where to start, or what is most important. Don't be overwhelmed, and focus on what really matters.

Features :

This app includes many features like pin point in a map where your classes are. A calendar to keep track of your To Do assignments and when they are. A robust and user-friendly interface that will motivate you to do more while keeping yourself organized. You can also write simple notes to remember something about a lecture or class. The app will include a timer in case you want to time yourself for a exam, or just to check how long it takes you to do something. You can also record what a professor or what you said, to refresh your memory at a later time. At the end of the day, the app has one goal: to make one a more productive student.

Compilation of all of your project updates

Final Project Update #1

Summary

This app is for the regular student that wants to keep his/her life more organized. When using College Reminder, students are able to add their class schedule, the location of the class, a To Do list, a timer, and even notes. The main purpose of this application is to better manage your tasks and school assignments while only using one app.

Proposed progress vs actual progress

Alejandro Casanas :

First assignment was to complete a timer to keep track of how long the student takes to complete a certain task. The main functionality of this task has been done, I just need to make it look better and add a background and better buttons. I can say i completed my goal for the 2 weeks, even though there was a lot going on with Career Showcase and interviews.

Michael Bentz:

My first assignment was to design a map view to display the student's schedule. I have not yet implemented this feature, but I have designed the layout which I will later design in xCode. I am behind schedule but working hard to catch up.

Anthony Colas:

My first assignment was to make the notes app so that a student will be able to write any notes they want and have their notes more organized. I have started making this in Xcode, although I am a bit behind schedule. I should be able to easily get back on track since I know how to get this done.

Challenges that prevented you from completing your goal

Alejandro Casanas:

Accomplished main goal for the first update. Just some trouble with the GitHub but solved that.

Michael Bentz:

The largest challenge that prevented me from completing my goal has been the lack of time available to work on this project. Due to preparing for Career Showcase, Career Fair, organizing events for my club and other class work.

Anthony Colas:

I have had a lack of time these two weeks, but will have plenty of time this upcoming week to get the Notes part and To Do List part done. Also another challenge was setting up everyone with GitHub and knowing how to merge views with GitHub.

How do you intend to get back on track

Alejandro Casanas:

I am on track, and will help my team members get back on track.

Michael Bentz:

I intend to get back on track by taking the weekend to focus on implementing the map features.

Anthony Colas:

I plan to push what I have to GitHub and work diligently with my team in order to get back on track. We also plan to meet in order to help each other out with any problems we may have with the coding. We want to strengthen each other's weaknesses.

Updated Timeline

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Alejandro								

Timer								
Sign-up & Login								
Logo								
To Do List								
Michael								
Map								
Calendar								
Anthony								
Notes								
To Do List								
Reminders								

Task for each member

Alejandro Casanas :

- Create a simple and easy to use signup and login screen that remembers the user once registered.
- Design a custom and unique Logo for College Reminder.
- Create an engaging user interface tailored for a college student.
- Program a to do list where the user is able to add task, and remove assignment when done by just using swipe gestures.

Michael Bentz:

- Design a map view to display the student's schedule
- Include calendar integration for assignments and tasks

Anthony Colas:

- Make a notes part of the app so a student can easily organize their class notes
 - Attempting to find a way to share notes on Facebook through one's account
 - Make a to-do list with
 - Mark when task complete
 - Create new task
 - Attempting to find a way to share it on Facebook
 - Task priorities
 - Reminder part of the app
 - Set time and day for reminder
 - Set alert functionalities
 - Priority of reminder
-

Final Project Update #2

Team Members: Alejandro Casanas

Michael Bentz

Anthony Colas

Summary

This app is for the regular student that wants to keep his/her life more organized. When using College Reminder, students are able to add their class schedule, the location of the class, a To Do list, a timer, and even notes. The main purpose of this application is to better manage your tasks and school assignments while only using one app.

Proposed progress vs actual progress

Alejandro Casanas :

My second task for the project was to complete an easy to use sign-up and login page. I was able to finish the signup and login for the app, and then connected to Parse. This task has been almost completed and tested to prevent errors and crashes. The only thing I'm missing is saving the user's information into the local database, so that the App remembers if the user is logged in or not. This will eliminate the struggle of having to login everything time you use the app.

Michael Bentz:

Last update I was behind schedule, now I'm caught up and finished the main functionality of the Map. All that is left is to attach it to Parse and incorporate the user information added by Alejandro. I have also worked on the layout and navigation, adding a side navigation bar that slides in over and back out of the current view.

Anthony Colas:

I was able to finish all the note taking functionality for app. The user is able to make a note and it saves it on the cloud (Parse). I'm on schedule and i finish my 2 week goal.

Challenges that prevented you from completing your goal

Alejandro Casanas:

The largest challenge that prevented me from finishing this task was due to the fact that I been working on 4 other projects simultaneously.

Michael Bentz:

Similar to Alejandro, I have 4 projects at the same time, while running a club. Keeping up with everything is a challenge but I am back on track with this project.

How do you intend to get back on track

Alejandro Casanas:

I intend to get back on track by managing my time more efficiently and delegating some of my work to fellow team member.

Michael Bentz:

I am back on track and plan to stay on top of my progress.

Updated Project Timeline

Alejandro Casanas:

For next two week I will be implementing the Logo for the app. I will work on the design by myself. However I will be asking my team members for input, advice, and feedback.

Michael Bentz:

For the next three weeks, I'll be working on the structure of our parse classes and focusing on the layout and navigation of the app before moving on to the calendar.

Anthony Colas:

For the next four weeks, I'll be working on the To-Do list with Alejandro and combining our code to make it more user friendly and fun to use.

Updated Timeline

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Alejandro								
Timer	✓							
Sign-up & Login	✓	✓						
Logo								
To Do List								
Michael								
Map	✓	✓	✓					
Layout								

Parse								
Calendar								
Anthony								
Notes								
To Do List								
Reminders								

Task for each member

Alejandro Casanas :

- For the next couple of weeks i will be focusing on designing a logo that represent our App and is tailored towards College students. I am not experienced with designing a logo, so that will be a challenge that I will have to overcome.
- After I finish my logo design, if time allows I will start working on the To-Do list that will allow the user to add item, remove items when task is completed. Maybe implement a different colored priority system, where the user is able to select the priority level for the each task.

Michael Bentz:

- Focus on the navigation and layout of the app, incorporating the features that Alejandro has worked on
- After I finish the layout, I will structure the parse classes that everyone will use and start working on the Calendar

Anthony Colas:

- The main features I'll be focusing on for this 4 weeks are : creating new task, eliminating task when completed, sharing task with facebook friends.

- After I finish with this part of the app, I'll be working on the reminders function of the app. The user will be able to set alerts and managing their time better.
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Final Project Update #3

Team Members: Alejandro Casanas

Michael Bentz

Anthony Colas

Summary

This app is for the regular student that wants to keep his/her life more organized. When using College Reminder, students are able to add their class schedule, the location of the class, a To Do list, a timer, and even notes. The main purpose of this application is to better manage your tasks and school assignments while only using one app.

Proposed progress vs actual progress

Alejandro Casanas :

My third task for the project was to design a custom logo that will captivate the user's attention. Throughout this process my photoshop skills were enhanced and I learned the impact a logo design can have on its future users. First impressions really do matter!

Michael Bentz:

My third task was to design the schemas for our parse classes keeping in mind the scope of the project and the functionality we want to add. I also added the navigation, using a slide in sidebar to go between different views.

Anthony Colas:

My task this time included starting the to do list and starting the reminders part of the app. For the to-do list Alejandro and I are working together to come up with a good implementation. The reminders part was a little difficult since I am not sure if to just integrate it with the calendar or make it its own thing for the user. As of right now, the reminders functionality is its own entity.

Challenges that prevented you from completing your goal

Alejandro Casanas:

I was able to complete this task on time.

Michael Bentz:

I was able to finish my parts on time.

Anthony Colas

I was able to accomplish my parts for this update. I am still going to work on to-do list and reminder for the remainder of the final project.

How do you intend to get back on track

Alejandro Casanas:

I am on track.

Michael Bentz:

I am on track.

Anthony Colas:

I am on track.

Updated Project Timeline

Alejandro Casanas:

For the remainder of this project, my main focus will be devoted to creating a To-Do list. I will have to work together with my teammates to combine different classes of students, task, and reminders.

Michael Bentz:








For the remainder of this project I will work on adding a calendar to display the tasks in the To-Do list.

Anthony Colas:

For the remainder of this project, I will continue my To-Do list part with the help of Alejandro. I will also collaborate with Michael in order to see if we both want to integrate the my reminders portion with the calendar.

Updated Timeline

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Alejandro								
Timer	✓							
Sign-up & Login	✓	✓						
Logo		✓	✓					
To Do List			✓					
Michael								
Map	✓	✓	✓	✓				
Layout				✓	✓			
Parse				✓	✓			
Calendar								
Anthony								

Notes								
To Do List								
Reminders								

Task for each member

Alejandro Casanas :

- My main concern as of this moment is finishing everything on time and keeping track of my teammates' progress.
- After finishing the To Do list, I must also work on User Interface, making sure that the app and its transition runs smoothly.

Michael Bentz:

- Integrate the To-Do-List into the calendar
- Touch up on the aesthetics of the app

Anthony Colas:

- The main features I'll be focusing on for this 4 weeks are : creating new task, eliminating task when completed, sharing task with facebook friends.
 - After I finish with this part of the app, I'll be working on the reminders function of the app. The user will be able to set alerts and managing their time better.
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Final Project Update #4

Team Members: Alejandro Casanas

Michael Bentz

Anthony Colas

Summary

This app is for the regular student that wants to keep his/her life more organized. When using College Reminder, students are able to add their class schedule, the location of the class, a To Do list, a timer, and even notes. The main purpose of this application is to better manage your tasks and school assignments while only using one app.

Proposed progress vs actual progress

Alejandro Casanas :

My final task for the project was to design a To Do feature to keep track of the user's assignments. I have completed this task and linked it to a class on Parse that saves every task for all users.

Michael Bentz:

My final task for the project was to integrate a calendar view that shows the students tasks. Also it would allow the user to toggle between a week view and monthly view. I was able to finish the weekly and monthly view but I'm working on finishing task integration.

Anthony Colas:

The reminders part is its own entity and not integrated with the calendar yet. However I was able to finish the everything that I said on time but will continue to try to integrate it with the calendar.

Challenges that prevented you from completing your goal

Alejandro Casanas:

I was able to complete this task on time.

Michael Bentz:

Planning for my clubs semester event.

Anthony Colas

I was able to accomplish my parts for this update. I added a feature to allow a user to share notes on their facebook wall. I will try to get my reminders integrated with the calendar, but it is not a main goal for the project.

How do you intend to get back on track

Alejandro Casanas:

I am on track.

Michael Bentz:

I intend to get back on track over Thanksgiving break.

Anthony Colas:

I am on track.

Updated Project Timeline

Alejandro Casanas:

For the remainder of this project, my main focus will be devoted to intensively test every feature in our app to make sure it performs well. After all the features have been tested and corrected, I will start polishing the designs and layout to make it more user friendly and desirable.

Michael Bentz:










For the remainder of this project I will work on adding task integration to the calendar as well as tidying up the user interface.

Anthony Colas:

For the remainder of this project, I will keep attempting to integrate the reminders with the calendar while also making the app's appearance look polished. I will also work on testing it with Alejandro.

Updated Timeline

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Alejandro								
Timer	✓							
Sign-up & Login	✓	✓						
Logo		✓	✓					
To Do List			✓	✓	✓	✓		
Michael								
Map	✓	✓	✓	✓				
Layout				✓	✓			
Parse				✓	✓			

Calendar								
Anthony								
Notes								
To Do List								
Reminders								

Task for each member

Alejandro Casanas :

- My final concern is to make sure that every feature on our app works together as expected. I will devote at least a couple of days to test the app and triple check for bugs in our app.
- After making sure the apps functions as expected, I will start adding new images and backgrounds to change the layout and design of our app.

Michael Bentz:

- Integrate the To-Do-List into the calendar
- Touch up on the aesthetics of the app

Anthony Colas:

- Test the app to make sure all parts work as intended
- Polish the app design and aesthetics
- Attempt to integrate the reminders with the calendar

Plan for completing the final submission document and presentation

Contingency plan:

Alejandro Casanas:

Will be able to submit the following

- Login and signup screen
- Design logo
- User Interface made for the college student that is easy to use
- To-do list
- Timer

Everything I listed in the proposal will be submitted.

Michael Bentz:

Will be able to submit the following

- Sidebar navigation throughout the application
- Map with student class schedule
- Weekly/Monthly Calendar view with tasks

Unable to implement the following

- Using an API to pull the student's class schedule and populate the Map, instead the student will have to enter the address of their class to view the location on the map

Anthony Colas

Will be able to submit the following:

- Able to complete the notes part of the app which allows a note to be shared to social media (Facebook)
- Able to complete to-do list
- Able to make a simple reminder functionality

Unsure whether to implement /Modified

After discussing it with my team we have deemed the following unnecessary or not very important for the app:

- Record audio

Although listed in the project proposal task breakdown, throughout the creating process we left it for last since it was the part we thought was the least important. Thus we modified this from the original project proposal.

Comparison

Proposed App	Actual App
To Do List <ul style="list-style-type: none"> • Date and Hour • Swipe to delete 	To Do List <ul style="list-style-type: none"> • Date and Hour • Linked to devices' reminder • Linked to Calendar • Swipe when done functionality
Login and Sign up <ul style="list-style-type: none"> • Sign in with user account • Sign up with encrypted password 	Login and Sign up <ul style="list-style-type: none"> • Sign in with user account • Sign up with encrypted password • It remembers if you're logged in, so you don't have to login every time you use the app.
Design Logo <ul style="list-style-type: none"> • Custom and unique logo 	Design Logo <ul style="list-style-type: none"> • Custom and unique logo design
Custom user Interface	Custom User Interface
Timer <ul style="list-style-type: none"> • Timer to keep track 	Timer <ul style="list-style-type: none"> • Timer to keep track
----	Home Page with Classes <ul style="list-style-type: none"> • Displays all classes with grades for each
----	GPA Calculator for your Classes <ul style="list-style-type: none"> • Calculates the GPA depending on current grade you entered for each class
Sidebar Navigation <ul style="list-style-type: none"> • Slide in a list of the available views and be able to select from the list 	Sidebar Navigation <ul style="list-style-type: none"> • Slides in a list from the left that lets the user pick from a set of options, which goes to the different views
Calendar <ul style="list-style-type: none"> • Have a month and weekly view • Integrate tasks under ToDo unique to the user 	Calendar <ul style="list-style-type: none"> • Has a month and weekly view • Integrate tasks under ToDo unique to the user • Display a dot under the dates that

	<p>have a task</p> <ul style="list-style-type: none"> • Display the task description and time due when a day is selected
<p>Map</p> <ul style="list-style-type: none"> • Display the student's class schedule • Show the location of the class selected 	<p>Map</p> <ul style="list-style-type: none"> • Default location is Reitz Union, center of campus • Has a right sidebar navigation that slides in a list of class that have an address • When a class is selected from the list, the sidebar closes and the map zooms in on the location of the class • Add a pin for class selected
<p>Notes</p> <ul style="list-style-type: none"> • Show a list of a user's notes • Make a note • Share the note to facebook 	<p>Notes</p> <ul style="list-style-type: none"> • Show list of user's notes • Make a note • Share a note to facebook • Swipe to delete a Note
<p>Reminders</p> <ul style="list-style-type: none"> • Remind a user about something during a certain time 	<p>Reminders</p> <ul style="list-style-type: none"> • Remind a user about something during a certain time • Puts the reminder in the default reminder list

Feature List

To Do List by Alejandro Casanas

1.The rationale for inclusion :

The reason I included the To Do list feature to the app is to keep the student/user's life more organized. The To-Do list is the heart of the App, this organizational feature helps the student by efficiently managing their time and daily activities.

2.Description of relevant data structures and utilized frameworks:

It is important for the user to enter their task because being organized is an essential skill for the academic life of a student. I'm taking input from the user and the selected deadline date that the task is due. Then I'll be storing the data and the date in Parse which is a cloud database. The data is stored in a class that stores the task to be done, the date that is due, and the user that entered the task. That way, everytime the user logs in, it will display recent task.

Login and Signup by Alejandro Casanas

1.The rationale for inclusion :

I included the login and signup feature to keep every bit of information personalized to every user. That way all your information is stored in a cloud database where it can be accessed by just logging into your account.

2. Description of relevant data structures and utilized frameworks:

For the signup and login I utilize a couple of text fields as a way of grabbing the input from the user and posting it to Parse. Everytime the user tries to make a new account, first it will check if another account has been made with the same username, or if the email has been used before.

When you try to login, the app will verify that the credentials and notify if the login was successful or if you enter incorrect username and/or password. A feature that I included was that if you have logged in, it will save the information so that you don't have to login every time you access the app.

Timer by Alejandro Casanas

1.The rationale for inclusion :

I added the timer as a side functionality to the app to avoid having the user to leave the app to use the device timer. This feature can keep track of how much time it takes you to do a certain task/assignment, or a test.

2. Description of relevant data structures and utilized frameworks:

For the Timer I used the NSTimer feature in IOS and I added some custom buttons to make it more fun and easy to use. It simple just keeps track of time, stops, and resets.

Adding Classes and GPA Calculator by Alejandro Casanas

1.The rationale for inclusion :

I added this feature to add a little bit more personality to the app, this is the welcome screen when you login the app. So this show a list of your classes and your expected GPA if your keep your current score. Our hope for this feature was to display the user's most important information, and allow them to add new classes, grades, and location of classes.

2. Description of relevant data structures and utilized frameworks:

For this feature I took the input from the user and stored the name of the class, the current grade, and the location of the class. I saved all of this information in a Parse class. I then had to

calculate the GPA scores, so i saved every letter into its decimal equivalence and calculated the expected GPA for the semester. I display this information in a Table, and made it editable so that the user can decide to delete or add new classes.

Sidebar Navigation by Michael Bentz

1.The rationale for inclusion :

I added this means of navigation because it allows for quick access to the different features of the app quickly and easily. It is very user friendly and with the numerous features it provides the best way to experience the entirety of the College Reminder App without getting confused.

2.Description of relevant data structures and utilized frameworks:

For this navigation method, I first looked at several options for navigation using the iOS APIs but none offered what I was looking for. Instead I looked the open source route (<https://github.com/John-Lluch/SWRevealViewController>) and found SWRevealViewController had a good foundation for navigation. I incorporated the Objective-C libraries and implemented a rear view which serves as the sliding menu from the left, and a right view which serves as a sliding menu from the right (incorporated in the Maps view).

Calendar by Michael Bentz

1.The rationale for inclusion :

I added a calendar to the app because it is a necessity for a reminder app. The whole purpose behind a reminder app is to be aware of upcoming events and due dates, ergo, implementing a calendar was the perfect choice.

2.Description of relevant data structures and utilized frameworks:

As with the navbar I first searched through iOS APIs offered and found that there were no Calendar views beside the native Calendar app. Unfortunately, I wanted the calendar to be a part of the application itself. I found an open source swift calendar (<https://github.com/WenchaoIOS/FSCalendar>) which allowed for this. This provided a view but I had to incorporate the parse classes to get it fully functioning. I parsed through the ToDo class, getting the dates for the current user, and then formatting them to accommodate the FSCalendar to display markers on days when a task was due. I also parsed through the task descriptions of the ToDo class to display them as those events were selected.

Maps by Michael Bentz

1.The rationale for inclusion :

With a College Reminder App, and a student's class schedule it made sense to include a map to display where their class was located. Having a map and ability to view them on a map internally is both helpful and convenient.

2.Description of relevant data structures and utilized frameworks:

The framework I used for this part was the MapKit, the SWRevealViewController and a tableview. The table view can be toggled on the top right to reveal a list of classes that have an address. The list of classes is populated by checking the Class parse object and seeing which of the classes for the current user has an address. The classes of that user with an address would then be put in the list. When a class is selected, I retrieve the street address of that class from Class parse object and set the location of that and pass it in as a local search response of the Map View. The map view will then zoom in on that location adding a pin with the title being set to the course name and address found in parse.

Notes by Anthony Colas

1.The rationale for inclusion :

The reason I included the notes feature for the app is because notetaking is an essential part of any college student's college journey. Since the app is made primarily for the college student, a student can have their notes on the go. A student should also be able to share his notes with his friends, that way others around him can gain knowledge and be kept up to date in case they miss a class.

2.Description of relevant data structures and utilized frameworks:

For the notes I am storing the user information along with their note title and description to parse. A user can have many notes, and thus should not have to use the memory on their phone in order for it to be saved. I stored these notes in a tableview so a user can easily scroll through all their notes. If a user swipes then the table item will be deleted. Also, on Parse, the notes are more secure in their own class, in case the data on their phone is lost. Parse also stores the date and time a note is saved in order so that the user can see their notes in the most recently made order. I also used the Social Framework so a user can share their notes to Facebook.

Reminders by Anthony Colas

1.The rationale for inclusion :

Many students may set a todo list but may be forgetful because of all the busy activities going on during their college careers. However, thanks to the College Reminder app they don't have to worry about that. When a student sets a todo task, a reminder is created on their device so that they won't have to miss anything. One goal of the app is so that the student has less things to worry about, and now remembering a certain task is off that worry list.

2.Description of relevant data structures and utilized frameworks

In order to set up the reminders, I had to use EventKit. EventKit allowed me to use the built in calendar on the device, in order to store a datetime and description. This datetime and description are stored on the phone's built in reminders, and make up a "reminder" on our app. The user needs to grant access to store in their Reminders app, so that the College Reminder app can send the user a notification that a task is to be complete.

To Do List helped by Anthony Colas

1.The rationale for inclusion :

As was previously stated above, the todo list is the “heart of the app.” It helps keep a huge burden off the student’s back during their college career by keeping their events organized. This was combined with Reminders to help students remember on what day and time something was to be accomplished. Since the devices’ Reminders was integrated with this portion of our app, a user can keep their reminders even if they are not logged in to the app.

2.Description of relevant data structures and utilized frameworks

As stated above, the date, user, and task was stored on Parse so that when a user logs in the reminder list stays on their phone. Also, this used EventKit to store the reminders on a student’s device.