

Team 9: Initial Project Description

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Project Name

PillPal

Project Synopsis

Medical app that reminds people to take their medication and makes medication management simple.

Project Description

PillPal has been undertaken to help individuals keep track of their daily medications. Many people have multiple prescriptions and it can be easy to lose track of them. This app aims to help manage that load. PillPal's medium will be reminders set on a mobile device and optionally will work through Alexa. These reminders will tell a person or caregiver when the next time and dosage is along with an image of the medication and if a dose has been missed. This will be done through a series of text-based, mobile notification and/or vocal alerts. Furthermore, the PillPal will allow the user and/or caregiver to monitor usage and record any side effects. It will also have reminders of contraindications and when supply is running low for the given medication. An additional function would be a journal to allow people to recall any information regarding any changes in health such as vital signs, symptoms, sleep, reasoning for withheld medication, etc. PillPal would allow people or caregivers to take their health into their own hands, including a better method to communicate information.

Project Milestones

Semester	Milestone	Estimated Completion Date
Fall 2019	Finalize project details and setup project on GitHub	10/06/2019
Fall 2019	Decide on initial design of user interface	10/06/2019
Fall 2019	Get familiar with React Native and other technologies	10/20/2019
Fall 2019	Finish skeleton of application so it works on mobile devices	10/27/2019
Fall 2019	Finish skeleton of database and connect it to application	10/27/2019
Fall 2019	Finish basic UI for each page	11/10/2019
Fall 2019	Finish basic functionality for each page	11/10/2019
Fall 2019	Improve UI for each page	11/24/2019
Fall 2019	Improve functionality for each page	11/24/2019
Fall 2019	Finish testing for current state of project	12/08/2019
Fall 2019	Finish documentation for current state of project	12/08/2019
Spring 2020	Improve UI for each page	02/16/2020
Spring 2020	Implement functionality for each page	02/16/2020
Spring 2020	Finish skeleton of Alexa Skill	02/23/2020
Spring 2020	Finish building and integrating Alexa Skill	03/01/2020
Spring 2020	Transition to a non-KU database (TBD)	03/15/2020
Spring 2020	Finish testing	04/12/2020
Spring 2020	Finish documentation	04/12/2020
Spring 2020	Submit application to Android App Store and Apple Store	04/19/2020
Spring 2020	Add enhancements/defect fixes and update on both App Stores	05/03/2020

Project Budget

Everything that we are doing can be done for free with the exception of getting an Apple Developer Account. However, there are optional paid tiers available for several of the resources listed below. We are going to use the KU database for the majority of development, but may or may not decide to transition to another free database option before graduating from KU in May 2020.

Resource	Special Training?	Vendor	Estimated Cost	Date Needed By
GitHub Repository	No	Microsoft Corporation	\$0	10/06/2019
IDE	No	Many options, up to each developer based on personal preference	\$0	10/20/2019
Android phone for testing	No	Not Applicable	\$0	10/20/2019
iPhone for testing	No	Not Applicable	\$0	10/20/2019
KU database	Yes	University of Kansas	\$0	10/20/2019
React Native	Yes	Facebook Inc.	\$0	10/20/2019
Alexa Skills Kit	Yes	Amazon.com, Inc.	\$0	03/01/2020
Apple Developer Account	No	Apple Inc.	\$99	03/01/2020

Work Plan

The tasks listed below will generally be assigned to these specific team members. However, other tasks may be assigned as needed and everyone is encouraged to contribute wherever they would like to or wherever is especially needed.

Task	Andrew Hubbard	Lauren Stephenson	Grant Stewart	Brian Quiroz	Shogun Thomas
Frontend, UI		x			x
Backend, Database	x		x	x	
Testing	x	x	x	x	x
Documentation	x	x	x	x	x