Jernigan - Sprint 1 Results

Vision Statement

Jernigan: A Link to the Past is a future Android app that will show users unique timelines of the places around them. This app is for anyone interested in learning about the history hidden in places they visit - you can think of it as your own personal tour guide. Using the phone's GPS, it will create a timeline of the site's history and teach the user things they'd never think to look up themselves. Unlike other location-based apps on the Google Play store, Jernigan will teach you about places that you've walked by a thousand times and never given a second thought.

General Definitions

User account - Username & Password combination
Username - Alphanumeric string
Password - Alphanumeric string
Timeline - Object containing summarization of text about a particular location

Product Backlog

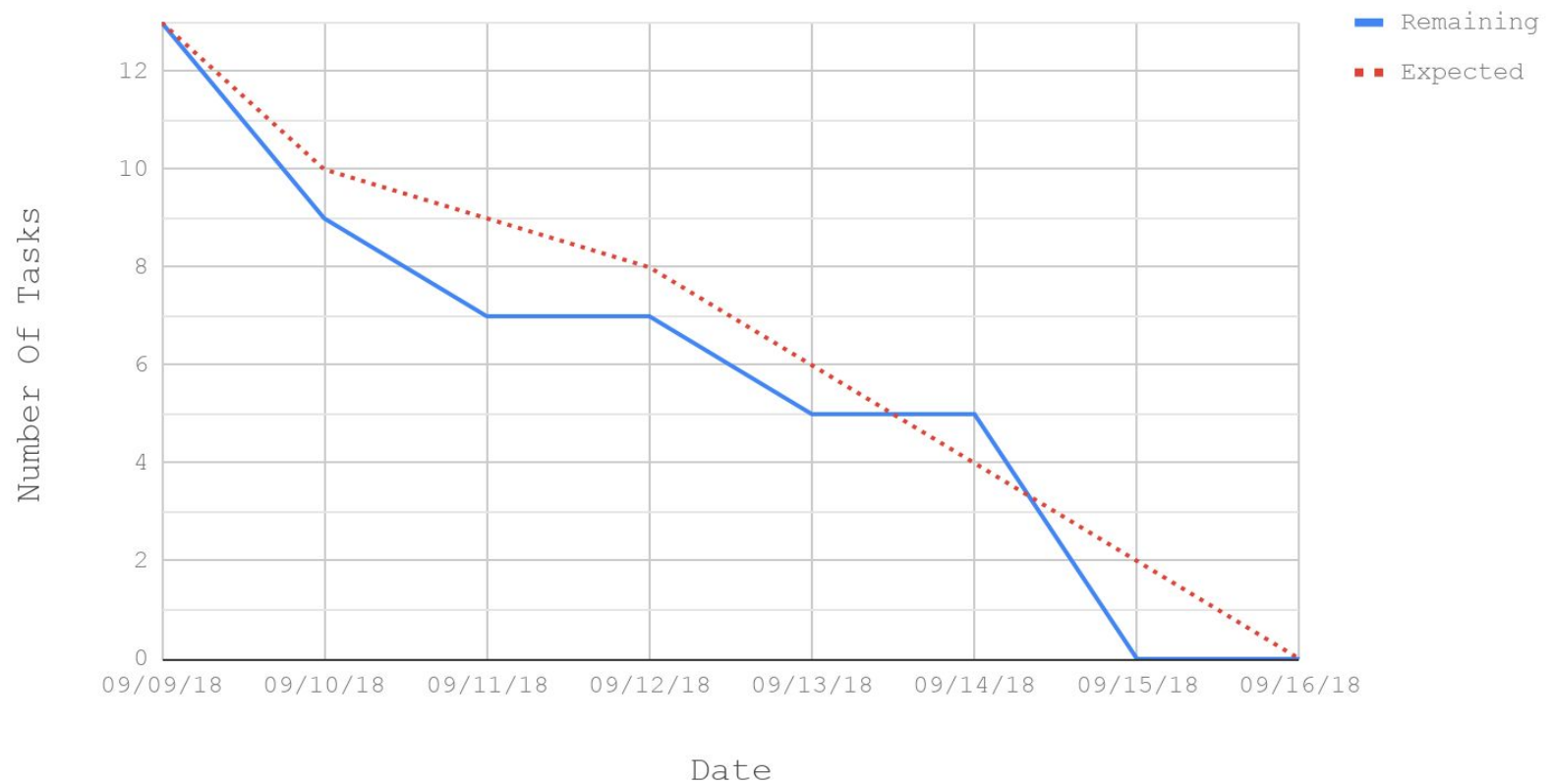| Story	Priority	Difficulty	Validation
As a user, I want my own user account, so my friends can keep up with where I've been.	1	2	A sign-up page that is intuitive and efficient
As a user, I want to save basic information about myself, so my online interactions can be more meaningful.	2	2	A profile page for the user where they can manage personal details about themselves.
As a user, I want to comment on a location I visit so my friends can see what I think about it.	2	2	A comment box that a user can submit on a location, with the comment saved and assigned to the user.
As a user, I want share pictures of a location, so my friends can see what the place is like.	3	5	A share button that will export data from the app to a text messaging / social media app
As a user, I want to give a location a rating, so that others can plan their trips better.	1	2	A "5-star" design that allows the user to rate a location on that scale
As a user, I want to click on an app icon on my phone and have the app begins execution.	1	1	A clickable icon opens the application

As a user, I want to input my user account into a login screen so I can enter the app	1	1	Input fields for user account allow entry
As a user, I want to be able to sign up for a user account, so I can log in for the first time	1	1	From sign-in page, the user can enter a unique user account of their choice and use those credentials to log into the app
As a user, I want to be able to navigate to a sign up screen if I don't have a user account.	1	1	When on the app, a tab bar is visible at all times and have options "Map, Profile, and Favorites" which navigate to the associated pages.
As a user, I want to be able to navigate to the Map, Profile, and Favorites screens through the use of a toolbar, so I can easily access pages.	1	1	From the login screen, the user can press a button to navigate to the sign-in screen
As a user, I want a simple error message to be displayed when a timeline cannot be created.	2	2	When a timeline cannot be created for any reason the program handles the returns a simple error message.
As a user, I want the timelines to be accurate and represent information related to the location they represent.	1	6	Content in the timeline is restricted to pages specifically referencing the location name.
As an artificial intelligence developer, I want the method of text summarization to be abstractive.	2	8	The timeline engine will utilize an abstractive method of text summarization in creating a timeline.
As a database administrator, I want to save each timeline that has been created, to reduce wait times due to repeated timeline creation.	1	5	Create a schema to save timelines associated to locations with a date-generated field
As a database administrator, I want the users to have passwords, so that the database will be more secure.	1	1	Save the user's password encrypted in an accounts table for login
As a database administrator, I want to create an intuitive database structure, so that users and future administrators may maintain it easily.	1	2	Create Entity Relationship Diagrams and use good naming practices
As an artificial intelligence developer, I want to utilize several different methods to create timelines, so that the best method can be found.	1	10	Create implementations in several languages/libraries to test which functions best for the purpose of historical text summarization/abstraction.
As a GUI developer, I want to utilize the most attractive fonts and graphics, so that the user experience will be better.	1	5	Use proper CSS styling
As a GUI developer, I want to achieve quick UI response times, so that the user will stay interested.	1	2	Ensure no hard logic happens on the client side, and use client side validation for fast reaction times

Sprint Backlog

Story	Priority	Difficulty	Validation
As a user, I want to click on an app icon on my phone and have the app begins execution.	1	1	A clickable icon opens the application
As a user, I want to input my user account into a login screen so I can enter the app	1	1	Input fields for user account allow entry
As a user, I want to be able to sign up for a user account, so I can log in for the first time	1	1	From sign-in page, the user can enter a unique user account of their choice and use those credentials to log into the app
As a user, I want to be able to navigate between the Map, Profile, and Favorites screens through the use of a toolbar, so I can easily access multiple pages.	1	1	When on the app, a tab bar is visible at all times and have options "Map, Profile, and Favorites" which navigate to the associated pages.
As a user, I want to be able to navigate to a sign up screen if I don't have a user account.	1	1	From the login screen, the user can press a button to navigate to the sign-in screen
As a database administrator, I want the users to have passwords, so that the database will be more secure.	1	1	Save the user's password encrypted in an accounts table for login
As a database administrator, I want to create an intuitive database structure, so that users and future administrators may maintain it easily.	1	2	Create Entity Relationship Diagrams and use good naming practices
As a user, I want a simple error message to be displayed when a timeline cannot be created.	2	2	When a timeline cannot be created for any reason the program handles the returns a simple error message.
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As a back-end developer, I want the code I write to handle the traffic between the client, the engine, and the resources in an efficient matter	1	2	Using WCF Services, Interface Oriented Design, and properly disposing of my classes
As a back-end developer I want to implement unit tests to test all of the use cases of my code	1	2	Write unit tests and use test-driven development

As a back-end developer I want to implement unhandled exception logging so I can keep track of when/where/why my application fails	2	3	Create a log file and write exceptions to it
As a back-end developer, i want to handle exceptions and return user-friendly errors to the client	2	2	Catch exceptions in the WCF layer, log the exception, and return "An error has occurred" to the client

Burndown Chart