RestoTouch - Iteration 1 Summary

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Project summary

RestoTouch allows small and medium restaurant-size owners to offer self-ordering services to their clients in the restaurant at a lower cost than traditional means. The application is fully customizable via a managing tool that the owners can used. They can also sign up through the application/tool and setup their account without contacting the app developer team. Our project consist of two applications: one for the self-ordering service on a tablet device, and the second a web managing tool application for the owners.

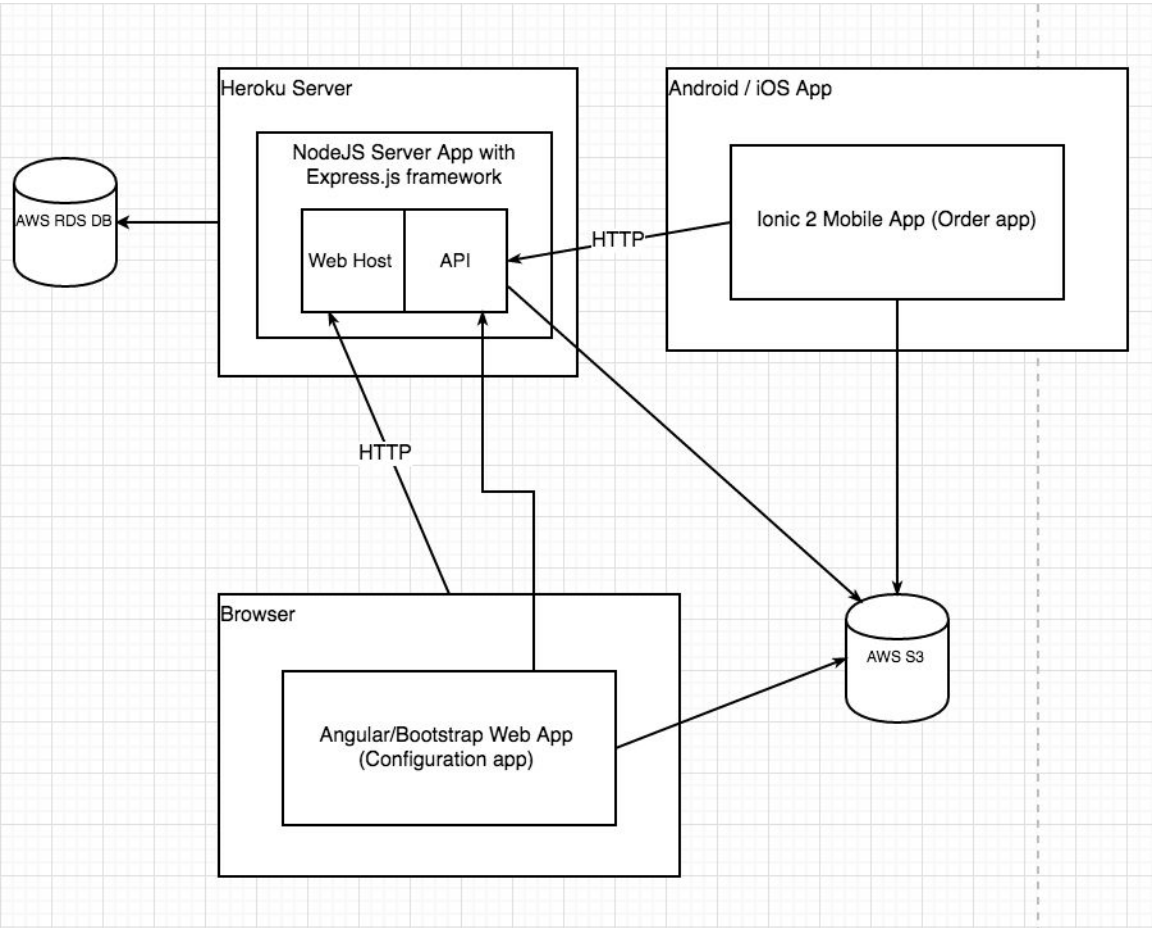
Velocity

We have completed 3 stories over two weeks. Below is the details of the stories.

ID	Story	USP	Priority	Status
1	As a restaurant owner, I want to create, view, modify, and remove virtual restaurant with a title, detail, and location that represents one of my several restaurants in my chain so that I can then create virtual menus for them and allow customer to order from a device.	13	High	**Completed**
6	As a restaurant owner, I want to be able to register online using my email, name and a password to this service so that I can login and create a virtual restaurant for my restaurant	5	High	**Completed**
7	As a restaurant owner, I want to be able to login to this service so that I can see and manage by virtual restaurants	3	High	**Completed**
	Project velocity after iteration 1:	21		

Overall Architecture and Class diagram

Show us the layers in your system and your domain classes. You can also include individual class diagrams in your stories on GitHub



Plan up to next release

Iteration 2

ID	Story	USP	Priority	Status
5	As a restaurant owner, I want to add, modify, or remove categories of items so that I can then assign food or drink items to these categories	5	High	
13	As a restaurant owner, I want to be able to add multiple languages to my restaurant so that customers can see items details in the language they have selected	8	High	

2	As a restaurant owner, I want to create (choose layout, style, color theme), view, modify and remove virtual menus of the items and combos in my virtual restaurant so that I can assign them to my virtual restaurants.	13	High	
	Total Points	26		

Iteration 3, Release 1

ID	Story	USP	Priority	Status
3	As a restaurant owner, I want to add, view, modify, or remove food or drink items to my virtual restaurants that have the following name, description, category, picture, various sizes available that the item can come in, for the item in each language offered by the restaurant.	8	High	
4	As a restaurant owner, I want to be able to add ingredients to a customizable item in an order in which the ingredient is composed of sets of ingredients so that I can offer my customers a customizable virtual food items that are composed of ingredients from sets of other items so that I can offer my customers customizable items like a sandwich or hamburger where they can choose the bread type, meat, sauce, veggies, etc.	13	High	
21	As a customer, I want to view the virtual menu so that I can see the categories, combos, and food items that the restaurant has to offer so that I can then order items or combos of items from the menu.	13	High	
	Total Points	34		

Release 1 total points is 81

Infrastructure

Angular 2 is a new framework released this year, it's a powerful front-end framework that allows web applications to be developed quickly and efficiently. Ionic 2 will be used to develop our mobile app, it is a hybrid application framework

that's based on cordova which allows the use of web technologies for mobile development and Ionic 2 also makes use of Angular 2. Both our mobile application and web application will be developed in the same front-end framework Angular 2, Ionic 2 is heavily integrated with Angular 2 so it just made sense to use the same framework for our web application. NodeJS with ExpressJS framework allows us to write our server backend in Javascript, this allows us to use one common language throughout our development so each of us can easily work on any part of the platform. NodeJS applications are also very lightweight and easy to scale and setup a deployment or development environment on various systems.

There's a lot of alternative front-end frameworks for web applications nowadays such as React, Angular 1, Vue.js and many more! Angular 2 is said to be a very opinionated framework compared to most, this means it comes with mostly everything you would need for developing a web application such as a template engine, routing, localization etc, etc, whereas other frameworks require a lot more decisions to make on which packages to use for handling specific tasks, this allowed us to focus on learning the technologies angular used rather than having to research a large amount of technologies just so we could decide which ones we would use. We also chose to use a front-end framework rather than using vanilla Javascript or jQuery because we believe that a front-end framework can eaze development, produce more maintainable, and testable code. Android or iOS native development tools are not being used due to a lack of experience our team has with these development environments and the lack of resources to develop both an iOS and Android application, a hybrid application allows us to have native application for both platforms using one code base. There exists many server side languages and frameworks to develop your backend in for your platform, such as Python with Django, C# with ASP.NET, Java with Spark, PHP to name just a few. All of these platforms could've also used to do what we need but we just found NodeJs provided more value by allowing us to develop in the same language we will develop in our front-end. Also, we feel that NodeJS is a lot easier to setup the development environment and quickly begin developing then most of these languages.

Angular 2 https://angularjs.org/
NodeJS https://nodejs.org/en/
ExpressJS https://expressjs.com/
Swagger http://swagger.io/
AmazonS3 https://aws.amazon.com/s3/
Boostrap http://getbootstrap.com/
pgAdmin https://www.pgadmin.org/
Heroku https://www.heroku.com/
npm https://www.npmjs.com/
Gulpjs http://gulpjs.com/
TravisCI https://travis-ci.com/
WebStorm https://www.jetbrains.com/webstorm/
Ionic 2 http://ionic.io/2

Naming Conventions

For Angular2: https://angular.io/styleguide
For NodeJS: https://github.com/felixge/node-style-guide

For example: Java naming conventions