"The system will feature the implementation of API protocols to allow a wireless connection between a web interface, a  MySql server and an external device. The user will be able to access a personal folder on a server  through a web interface; the data stored on the server will then be displayed through a unique access point from an external device."

Bluetooth from the phone to pass a variable to raspberry, raspberry to connect to the server and fetch data via wifi . raspberry need to be connected to the wifi

So far i got the raspberry to connect to azure server and search for an id sent as a variable trough Bluetooth with my phone return another value from the given Id row on the raspberry screen

We wanted to run the API on azure and send a request from the raspberry

BB on the API on the server side.

Bogdan working on the visual representation on what razzberry Is going to show. On python

16\*5 screen will output data that we arranged. Thought about time and alphabet.

Push an arrow on the computer to make it show the way the arrow is pointing. NEWS

API that connects to a real time stock value, using Yahoo stock updates.

Connecting an API to azure.

User interface need login that identifies the user and the device.

This is only for mobile, it’s a prototype.

Database factor will be user table and device table3

We need to have three tables. User table, device table – primary foreign key to be able to coupling them together, and one more table that piles those to tables together. The scope of this is that the device only connects to one unique data.

Xp spike for azure

Pairing programming

What we have:

we register and long

stock representation

arrow functions

Sprint 2: What went wrong, and what went right?

Lack of physical presence

Lack of coordination

Getting stuck on the user interface

We completed documented work, creating tables and columns and trying to load a sample of code, we installed the os. We understood the rasparry. We designed the database. We started at working on the erd – haven been completed, requirement weren’t precise enough. Fill out the import template

We are working on the user interface, the database and the erd.

13/10/2021

Review with Tue:

Spike – ran into an issue, because of the account(student account).

Remember to document the spike.

Diagram of the it system

Why are using it?

Why spike, what happened?

Methodology

What other way could we identify the device? Mac address

User stories, not completed?

Connect rasberry with api

How much off were we with the estimation of time used

At least one scrum standup meeting

Time box the stand up meetings

**Our retrospective**

Labeling our user stories and tasks correct

Need to implement daily stand up

Update the database, using the mac address to identifier

Not enough meetings

We have the spike result:

* Productive procedure, we know we are not going to do it this way
* But gave us an indicator of what we should do

Our physical meeting seemed to be more productive than the online meeting

The estimation was a bit off, too high.

The user stories weren’t realistic

Bigger or more objective user stories, and break them into more specific tasks

Planning sprint 4

Adding a text field

14/10/2021

Stand up meeting - online

Red hat website, to host the API – threescale api management

Cut down on the number of led –

16/10/2021

Stand up meeting

Updated to the idea with mac address instead

And fixed some small issues

We are hosting the project locally – by connecting to https

The computer that connects to works as a server – issues: not dedicated, rely on third party and needs to be on at all times

ngronk

**API**

**Azure DB**

Initially our plan was to have Azure host our MySQL database as well as our API which allows a wireless connection between the web interface, a MySQL server (workbench) and an external device. For the sake of efficiency this would have been the most optimal solution. Essential we wanted to manage the API (API management) and other resources like our database in Azure using python and the development portal from Contoso.

We decided that Contoso would host the API as opposed to running it on a local host; the API Management service includes an integrated manager developer portal which would enable us to self-host the API. After creating a Azure app, function app and API on Azure we made an attempt to deploy the API and publish it but was unable due to subscription limitations and no access to the active directory. Afterwards time was spent on research for alternatives to host our API, which set the group back timewise (3 hours per day for a week).

Ngrok

During our research we found Redhat 3Scale API management which had a 30 day trial and studied how to use it properly. Shortly after we discovered Ngrok. The cross-platform application provides a safe URL for our localhost by creating a tunnel (HTTP/TCP) to the local server of our machine. The public URL gives us SSH access to the Raspberry Pi.