# localEAT

localEAT application

fresh food near you

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## What is localEAT?

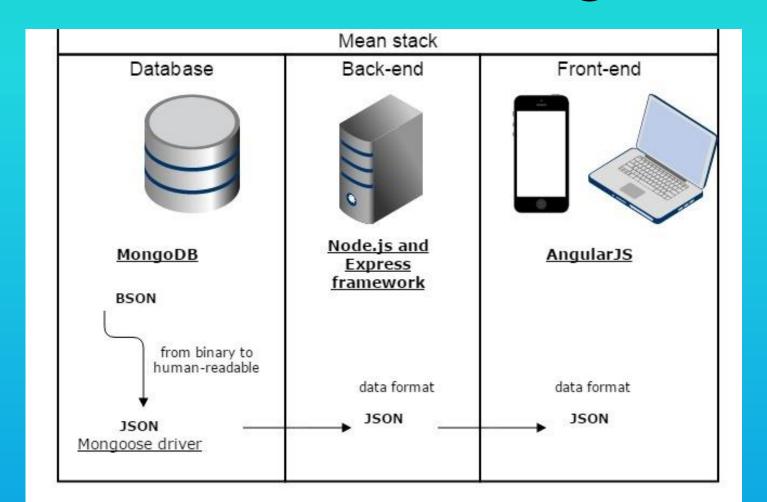
LocalEAT is a hybrid mobile application that will help users to find locally produced food in a certain area in Finland. By using this application, producers will be able to advertise their food and buyers will be able to find out food in their nearest local market as well. This application is used to encourage the sustainability of local and small producers of food and creates awareness among citizens about buying local products reaping on the way the benefits of eating fresh food.

#### Goal

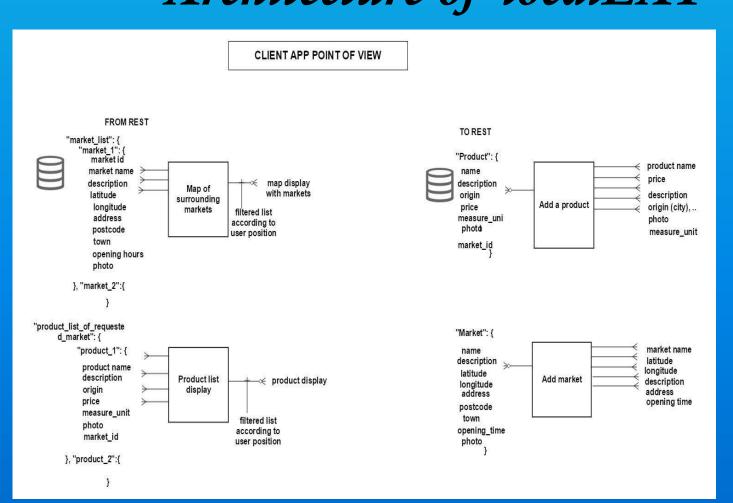
- Introduce locally produced food and make those familiar.
- Help producers and market sellers to advertise their food.
- Consumers can find food that they want to buy very easily in the nearest local market by using this localEAT application.
- localEAT application will show the market locations and directions to the users to find food easily.

## Implemetation

#### Back-end design



#### Architecture of localEAT



#### Designing MEAN stack architecture

- Node.js is a software platform that allows creating a webserver and building web applications. It contains a built-in HTTP server library, reducing the load of running a separate web server, giving more control over the web server work, but does increasing the complexity of running it. Meaning, NodeJS is Javascript running outside the browser, in the server
- ExpressJS is a Node.js web application framework, designed for building, in our case, the hybrid web application, making the application creation and testing easy, while repeating common tasks. So, ExpressJS is web application framework that runs on NodeJS, allowing to build web applications and APIs endpoints.
- The ability to store and use data is ensured by MongoDB a document database, storing data in the form of documents with key and value pairs, and a group of documents, which are the analogous to a table in relational DB. Because of the urgency of having some structure in many applications a Mongoose driver is needed, for "elegant mongodb object modeling for node.js".

#### Front-end design

• The front-end was built thanks to the ionic framework which implements new directives and style thanks to AngulerJS over the Cordova Framework which allows writing HTML/JS applications for mobile use.

# Client application views

The basic features of the application are summarized below:

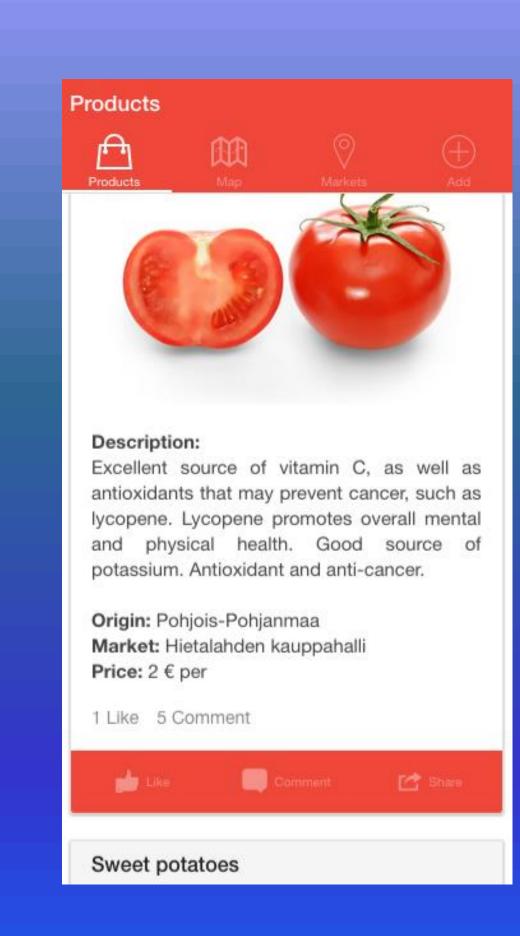
- 1. Consumers can browse food advertised from markets so that they can look for food which is local in a certain area and find what they need.
- 2. Consumers can find the market locations and get an overview of the direction using integrated map of localEAT application.
- 3. Producers and consumers can add market they know about as well as details concerning them.
- 4. Producers can add their produced food name, picture, description and location.

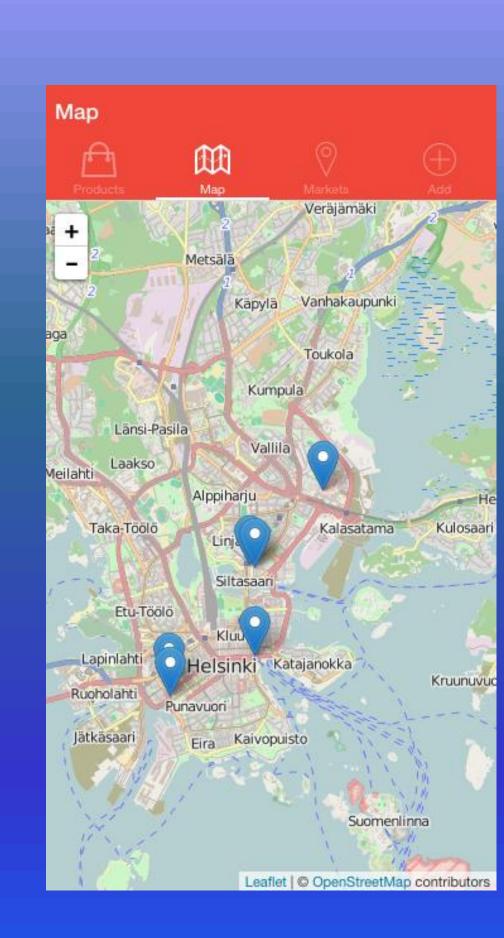
#### Possible features to be added in the future.

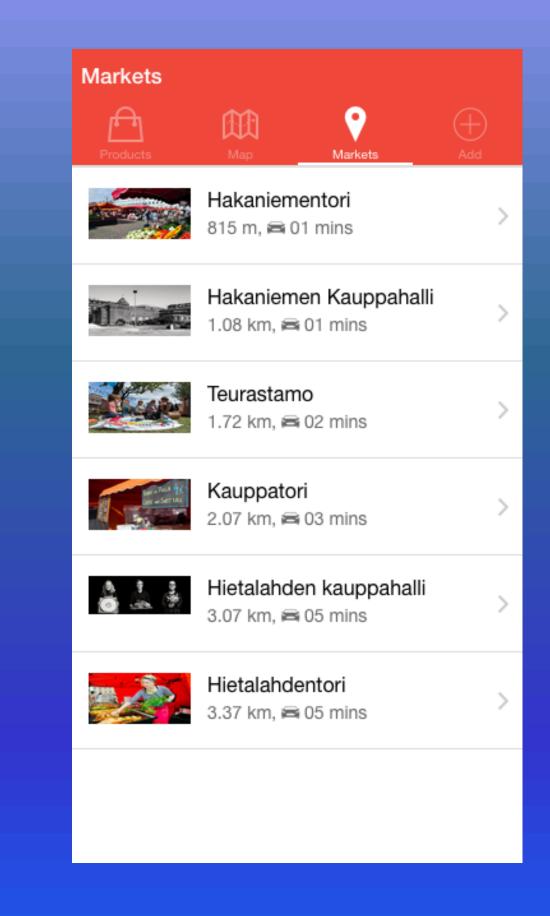
In the future, a search function might be added. This will help customers to look for product they want if the database get big.

#### How can open API be useful to other services?

Open API can serve other developers in developing their app. If people use competitors app, they will still reinforce a common database shared with the competitor and it will be profitable to everyone.









### Conclusion

Open API provides the means for applications to be developed in order to provide useful and timely information to users.

LocalEAT was developed with the aim to provide consumers an application to see the nearby markets from their current location on a map in order to find fresh products and to allow suppliers to advertise their produce as well as to add the markets from which these are available. Through the open API allowing access to the information collected, it is possible for other services to use our freely available data and expand on the idea of sustainable food supply to create their own applications.