

**MICHIGAN STATE**  

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**U N I V E R S I T Y**

# Alpha Presentation

## Humana Kids

### The Capstone Experience

Team Humana

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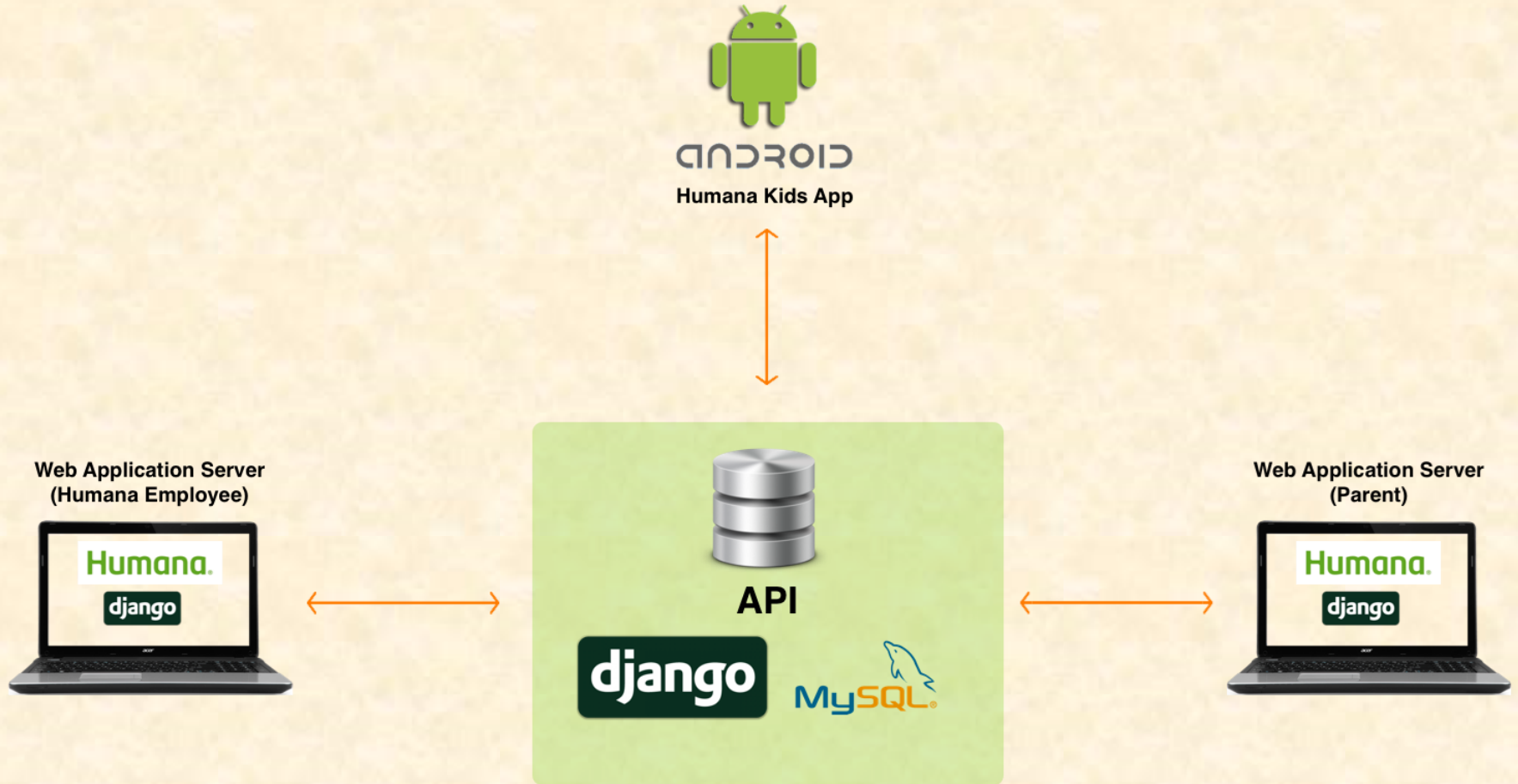
*From Students...  
...to Professionals*

# Project Overview

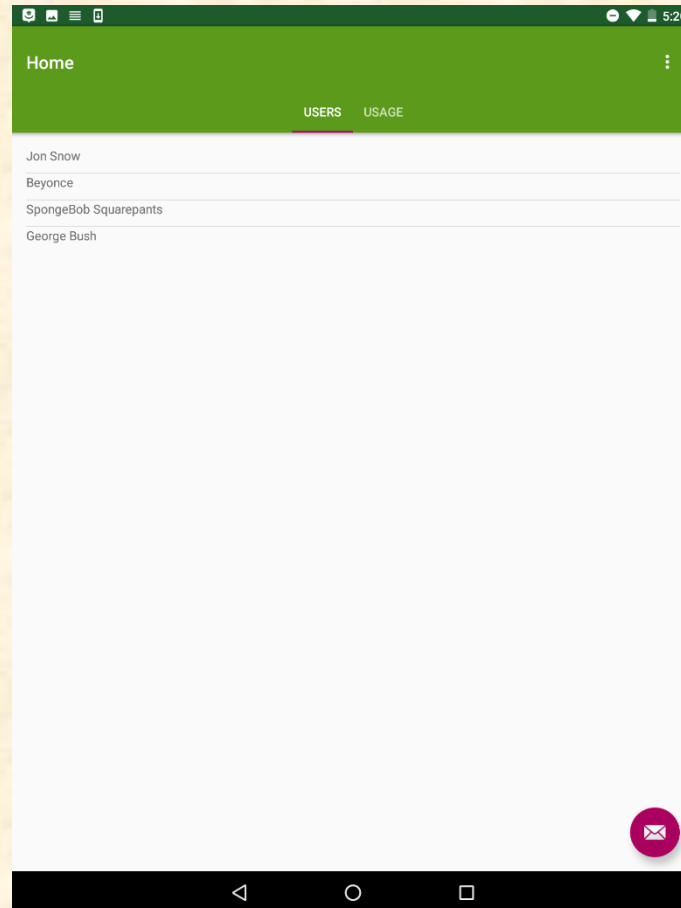
- Android App
  - Interface to promote healthy living among parents and children
  - Children will see surveys, tips, and challenges while using the device in child mode
- Web App for Parents
  - Interface for parents to see health trends for their children, survey responses, and various tips/recipes
- Web App for Admins
  - Allow employees to see usage statistics of app users, download data, and update questions and tips in DB



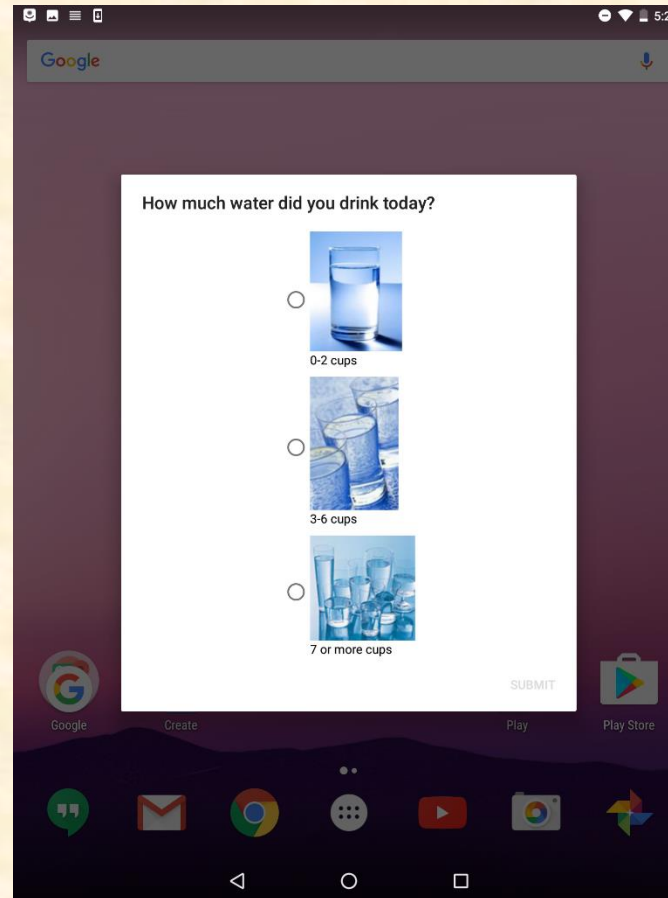
# System Architecture



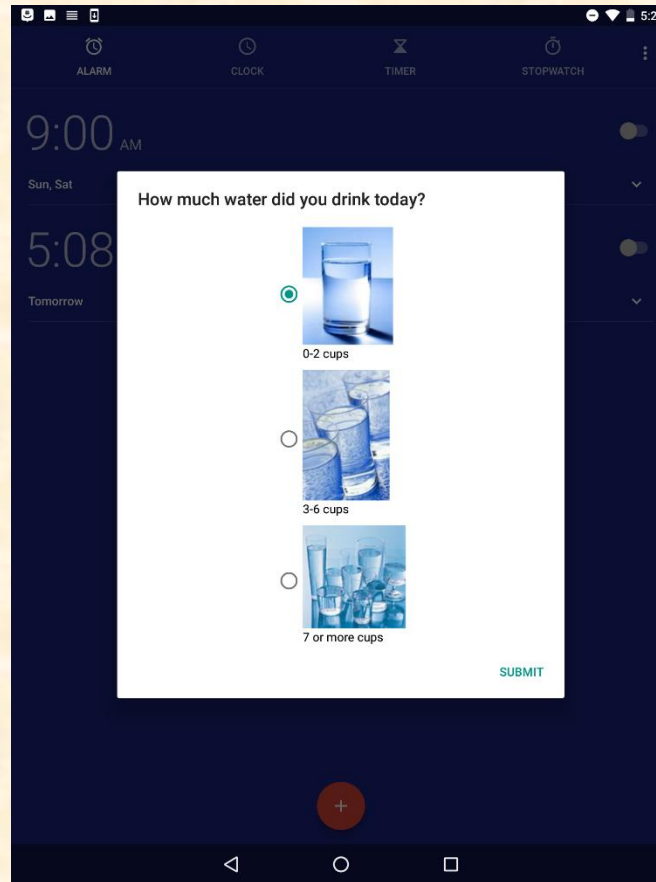
# Parent Homepage



# Survey pop-up on home screen



# Survey pop-up on native screen



# API

The screenshot shows the Django REST framework interface for a 'Parent List' endpoint. At the top, it says 'Django REST framework'. Below that, the endpoint is identified as 'Parent List' with 'OPTIONS' and 'GET' buttons. A description reads 'List all snippets, or create a new snippet.' The main section shows a 'POST /parents/' endpoint with a 'HTTP 201 Created' status. The allowed methods are GET, POST, HEAD, and OPTIONS. The content type is 'application/json' and the vary header is 'Accept'. The response body is a JSON object: { "id": 2, "username": "Dad", "password": "HumanaAPIDemo" }. Below this, there is a form to interact with the endpoint. The 'Media type' is set to 'application/json'. The 'Content' field is empty. A 'POST' button is located at the bottom right of the form.

Django REST framework

Parent List

Parent List OPTIONS GET

List all snippets, or create a new snippet.

POST /parents/

HTTP 201 Created  
Allow: GET, POST, HEAD, OPTIONS  
Content-Type: application/json  
Vary: Accept

```
{  
  "id": 2,  
  "username": "Dad",  
  "password": "HumanaAPIDemo"  
}
```

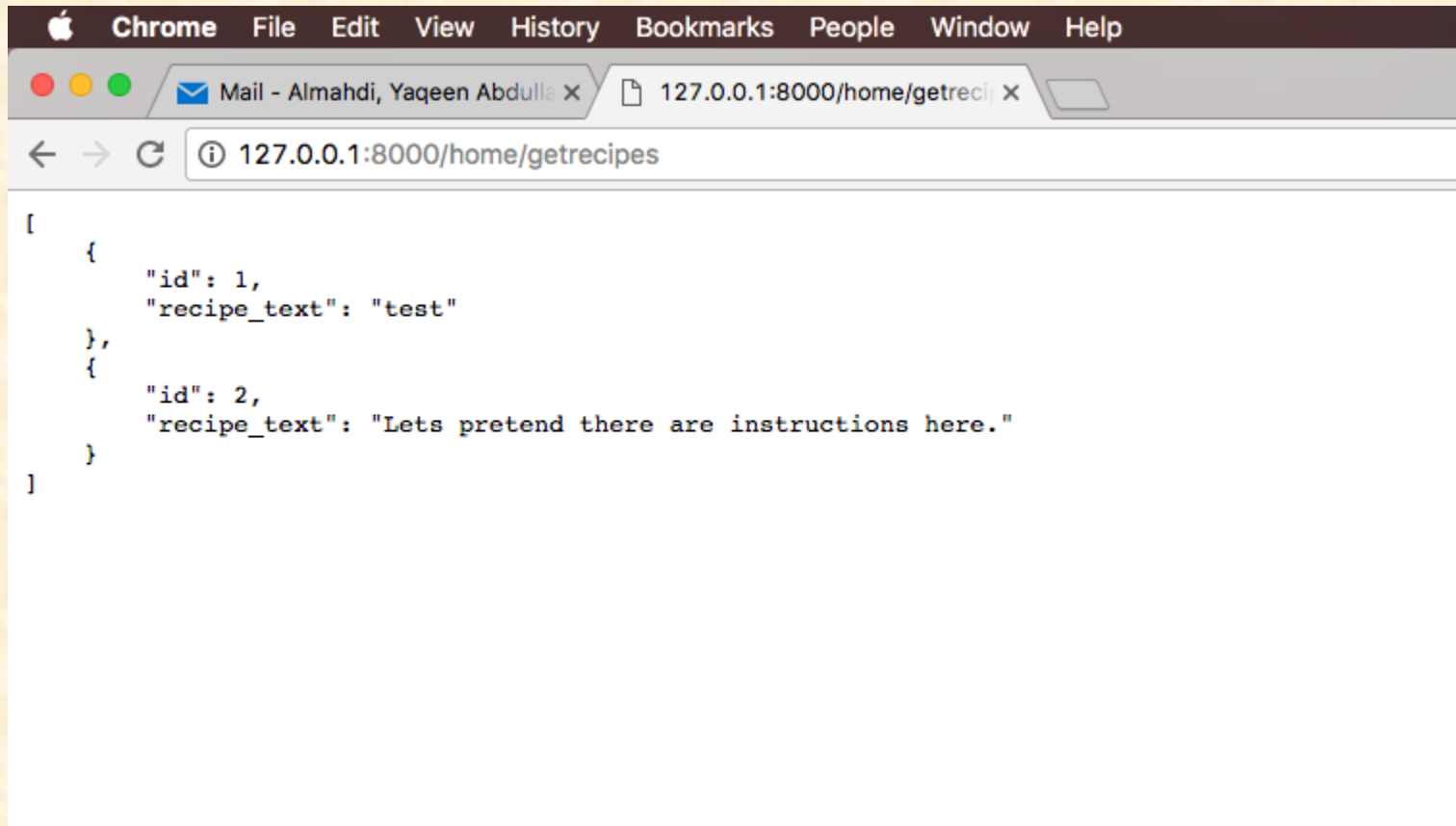
Media type: application/json

Content:

POST



# Django Web App - API connection



The screenshot shows a Chrome browser window with the address bar displaying `127.0.0.1:8000/home/getrecip`. The page content is a JSON array of two objects, each representing a recipe. The first object has an `id` of 1 and a `recipe_text` of "test". The second object has an `id` of 2 and a `recipe_text` of "Lets pretend there are instructions here."

```
[
  {
    "id": 1,
    "recipe_text": "test"
  },
  {
    "id": 2,
    "recipe_text": "Lets pretend there are instructions here."
  }
]
```





# Web App - Homepage

Humana Kids Home x

127.0.0.1:8000/home/

Humana Health Insurance Page Humana Health and Wellness Child Display Sports Recipes F.A.Q.

## HUMANA KIDS

[Register Here!](#) [Sign In!](#)

### What do I need to use Humana Kids?

All you need is a android device to download the Humana Kids.

### What Humana Kids Is:

Humana kids is a program created by Humana to help teach children how to live a healthy lifestyle. A lifetime of healthy living will provide an individual with more energy, confidence, and discipline, which is why it is so important to develop these skills at a young age. Humana kids will provide you with as much information on how to live a healthy lifestyle, and will help you present it in a way that a child will respond to. This website will be used to track the health trends of your child, and will give you information and tips on how to help him/her in areas that could use improving.

### How To Use Humana Kids:

First you will have to create an account, which will require you to take an initial survey about your health habits. once you are done with that, you will be able to create an account for everyone of your children. After creating an account you will be asked to take a questionnaire estimating health trends for your child. After that just download the Humana Kids app onto an android phone, and let your child use it to fill out the surveys.

### Already Registered?

Just click the Sign In button above to see your child home page!

### How to Register!



# Web App - Parent Registration

ParentRegistration x

127.0.0.1:8000/registration/register

Humana Health Insurance Page Humana Health and Wellness Child Display Sports Recipes F.A.Q.

## Humana Kids Parent Registration

Please enter your information to create an account.  
This is the account you will use to track the responses and health habits of your child.

Full Name:  
Michael g Hanlon

Email:  
hanlonm2@msu.edu

Username:  
Big\_Mike

Password:  
.....

Confirm Password:  
.....

Are you a member of Humana Health Insurance?

Submit



# Web App – Initial Survey

Initial Survey

127.0.0.1:8000/registration/initial-survey

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## Welcome to the initial survey

You will be your child's biggest resource for living a healthy lifestyle. The health habits that you have will be imitated by your child, so we will give you feedback on how to improve your health as well. This initial survey is very important towards giving you targeted information based on your habits and knowledge and health, so it is important that you answer the survey as truthful and accurate as possible. All information will be used to help you in the best ways possible, it will not be used for any other purpose.

1. How many hours of sleep do you get per weekday?  
 3-5  5-7  7-9  9-11  More than 11
2. How many hours of sleep do you get per weekend(Each Night)?  
 3-5  5-7  7-9  9-11  More than 11
3. How much water do you drink in a typical day?(12 oz cups)  
 3-5  5-7  7-9  9-11  More than 11
4. How many energy drinks do you drink per week?  
 0-3  4-7  8-11  12-15  More than 15
5. How often do you feel as if you eat to much junk food?  
 Almost never  Once a month  Once a week  A few times a week  Almost every day
6. How often do you get fast food?  
 Almost never  Once a month  Once a week  A few times a week  Almost every day
7. How often do you go out to eat?  
 Almost never  Once a month  Once a week  A few times a week  Almost every day
8. How often do you exercise for a 30 minute period?  
 Almost never  Once a month  Once a week  A few times a week  Almost every day
9. How much time do you spend watching tv per week?(hours)  
 None  1-5  6-10  11-15  Over 15
10. How many serving of fruit do you get per day?(hours)  
 Almost Never  Sometimes as a snack  Everyday with a meal  Multiple times a day  With every meal

Submit

Ask me anything Desktop 5:57 PM 2/20/2017



# Web App – Child Registration

Child Registration x

127.0.0.1:8000/child-registration/registration

Humana Health Insurance Page Humana Health and Wellness Child Display Sports Recipes F.A.Q.

## Humana Kids Child Registration

Fill the information out below to make your child's account  
The unlock code will be used for the phone app.

Username:

Unlocking Code(This is to deactivate childs more on mobile app):

Birthday(mm/dd/yyyy):

Gender  
 Male  
 Female  
 Other

Submit Cancel

Ask me anything Desktop 5:57 PM 2/20/2017

# What's left to do?

- Mobile App
  - Locking to switch between modes
  - Ranking and badges pages
  - Implement coin system
- Web App
  - Login/authentication
  - Display trends with graph
  - Downloading data to .csv/JSON
- Machine learning



# Questions?

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