Mom and Me

Percy Gabriel Soliz Rodriguez   12/13/2016
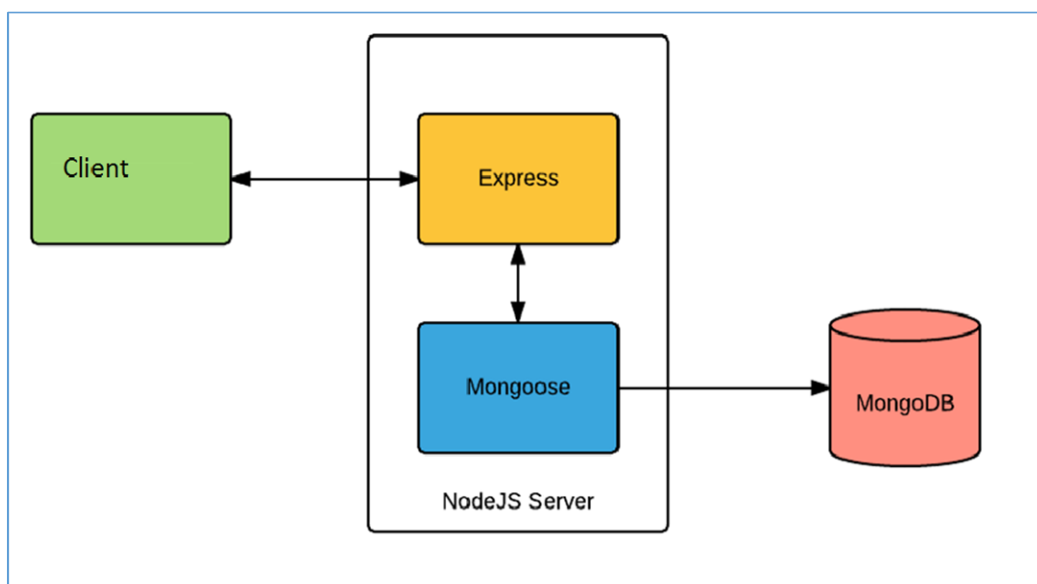
1. Brief Introduction:

Mom and Me is a web based application designed for future mothers who would like to get relevant tips during different development stages of their baby keep and track off following things:
- Nutritional needs
- Mother and Kid physical development
- Possible symptoms
- Baby Names

Most functions of the application are be divided on weekly basis starting from week 1 to week 40. The mother will enter her expected date of delivery at the time of signing up and the system will calculate the start and end date of each week as per the due date.

2. Technical Specifications

This will be a Full Stack Java Script application, running on a NodeJS Server:
Server Side
- MongoDB 3.2
- Node.js
- Express.js
- Client-Session
- Body-Parser
- Mongoose
- Jade Renderer

Client Side
- CSS 3
- HTML 5

- JavaScript
- JQuery 3.1

Data Sets

- **Kids:**
    - **Name:** Baby's Name
    - **Gender:** Male, Female, Unknow
    - **Due Date:** When the bay will be born
- **Names:**
    - **Description:** Possible Name
    - **Rating:** 1-5
- **Nutritional Needs:**
    - **Type:** Protein, Calcium, Vegetables, and Fat
    - **Week:** 1-40
    - **Description**: Nutritional needs for this week
- **Symptoms**
    - **Title:** Name of the Symptom
    - **Content**: Description of the Symptom
    - **Image:** Path of the image related to the Symptom
- **Users:**
    - **Username:** Login string of user
    - **Password:** Password of the account
- **Weeks:**
    - **Kid:** Pertinent to that week
    - **Description:** Notes from the mother
    - **Order**: 1-40
    - **Initial Date:** Date when the week begins
    - **Final Date:** Date when the week ends
- **Possible Names**
    - **Name:** Suggested name
    - **Meaning:** Meaning of that name

3. Conclusions

This project is using many kinds of Markup Languages like JSON, BSON and HTML. Was built with the objective of creating a light-weight, full JavaScript stack application, that would use the same data structure from the database to the client side. This was achieved thanks to the use of JSON objects, which proved to be very useful and versatile at the same time, this kind of markup language can store from simple bits to even large serialized files with the help of a parser.

Thanks to this project I managed to understand the importance of Markup Languages in the software development, especially when there is a need of keeping your data structured and easier to understand, not only for the rest of your team, but also for yourself.

With the help of markup languages, APIs are built in a simple and structured way. Something that I see as an almost impossible task without them, even more now they are being used in the persistence layer like is the case with NoSQL Databases like MongoDB.