



EatsEasy - dining application

Finding tasty food made easy

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1. Brief system description

EatsEasy is a system that connects clients and restaurants. It helps clients to find the place to eat in, fastly, to place the order and track it from anywhere, and to pay instantly. It helps restaurant's staff to manage the queues of orders, to keep the menu updated and to serve clients the best way they can.

Pros of using *EatsEasy* by clients:

- **Flexibility:** Using *EatsEasy* the client can search where and what he wants to eat, depending on his flavor and desires, at the time that he decides, making the shortest way possible, calculated using his current location
- **Up-to-date:** The client is always welcomed by businesses that serve at the selected time and presented with a real time stock-based updated menu
- **Remote control:** The client can book a table, place an order, even remotely, and get the time estimation for his order to arrive
- **Fast assistance:** While seeking help or service the client can call the staff by pressing a button and a waiter will be at the client's table in no time
- **Time saving:** When the client is done enjoying the delicious food, he can ask for the bill using the app or even pay through the *EatsEasy* app and be on his way to his next adventures

Pros of using *EatsEasy* by restaurants:

- **Error-proof:** The waiter sees the orders through the system as they are being placed, drastically cutting the time it takes to place an order and the amount of mistakes typically made in process
- **Up-to-date:** The shift manager can update the menu in real time based on stock availability. No Parmesan cheese in the fridge - no Caesar salad in the menu
- **Take eat easy:** Different ways to decide which waiters serve which tables, based on preferences and workload
- **Serviceability:** The client can press a button if he has any questions, and his waiter would receive a notice. No more begging for service and fishing the waiter's attention
- **Management:** Plenty of useful real time graphs and data summaries for the business staff

2. Documentation and source control



GitHub

<https://github.com/Guzzur/eats-easy>



Web [under construction] [http://eatseeasy.app](http://eatseasy.app)



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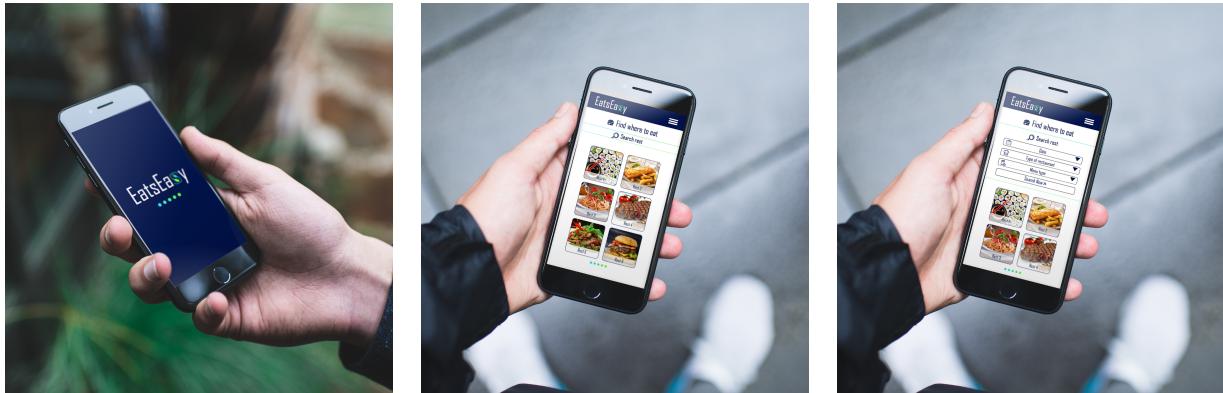
<https://goo.gl/eWSm7t>



3. Basic system structure

System components and technologies:

- Java Spring Boot based REST API server and microservices [backend]
 - Spring MVC (Spring's contender of JSF)
 - Tomcat Java Servlet
 - Maven Dependency Manager
 - JavaBeans functionality
 - Data adapter for relational database (Spring Data JDBC or Hibernate for Postgresql)
 - Data adapter for non-relational database (Spring Data MongoDB for User Analytics and other metrics (Big unformed scale oriented Data))
 - XML configuration
- Android app with React Native or plain Java for the client [frontend]
- React.js web UI for the waiter/shift manager [frontend]
- React.js web UI for system administrator [frontend]
- Node.js server for React.js UIs [backend]
- Nginx (reverse proxy)
- Docker (containerization)



4. Basic system plan

