Project Design Document - Food Pin

FoodPin

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Version 1.0.0

REVISION HISTORY			
DATE	VERSION	DESCRIPTION	AUTHOR
25.01.2021	1.0.0	MVP	Marcin Chałuda, Robert Matląg

1. Introduction

1.1 Purpose

Create awareness about the importance of reducing food wastage. Approximately 3 billion tons of food gets lost or wasted on a daily basis in restaurants, hotels and households, this food can be served to needy people.

1.2 Background

Previous initiatives: to sell food from restaurant and meals which about to go bad in discount prices. There are few applications which covers this aspect but none of them are supporting food donation.

1.3 Analysis Scope

Application will cover broad aspects of food waste. Users can donate food to other users or food banks. Users can look for volunteers to deliver selected food. Cashless transactions which are based on people's good will.

1.4 Business model

Model based on advertising for free users. Available subscriptions for users to eliminate advertising.

1.5 Target platforms

Type of application: web app, allows users to open applications on a desktop and mobile devices.

2. Assumptions, Constraints, and Conditions

MVP requirements consist of:

- displaying posts added by users
- registering users
- display pin location on a map
- login/logout interface

2.1 Estimates

TIME ESTIMATES			
CATEGORY	**DESCRIPTION**	**BEGIN DATE**	**END DATE**
MVP	Login / logout, registration, basic application mockups,	15.02.2021	21.02.2021
MVP	users posts, post management	22.02.2021	28.02.2021

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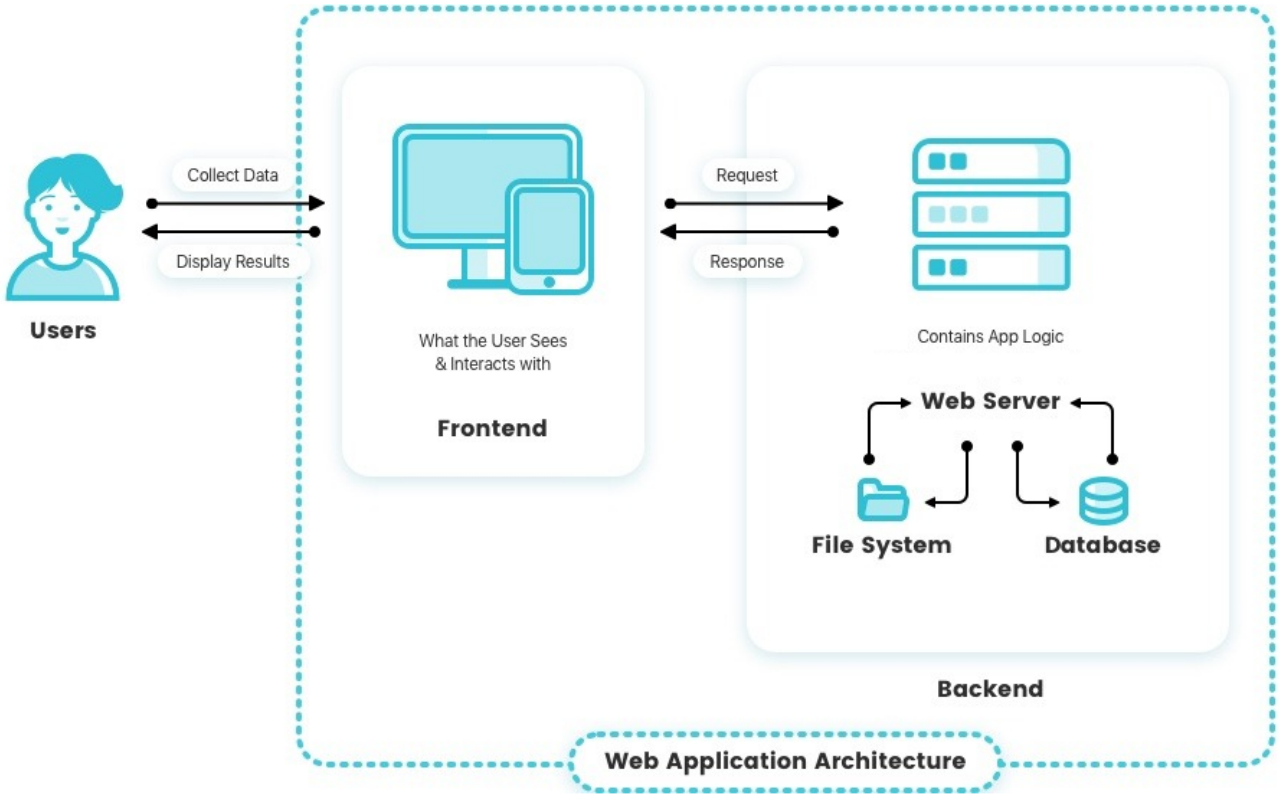
3. System Architecture



3.1 Overall System Architecture

Application uses a monolith structure where everything will be deployed on one server and hosted web servlets for all the various pages, handled business logic, and connected to the database. The application uses MVC as a design pattern.

3.2 System Application

Main backend technology: Python Django, Django Rest Framework,
Main frontend technology: Angular, Sass,
Main database solution: PostgreSQL,
Additional technologies: open source maps (https://www.openstreetmap.org/),
Technical concepts:

- security JWT,
- pin a announcement on the map

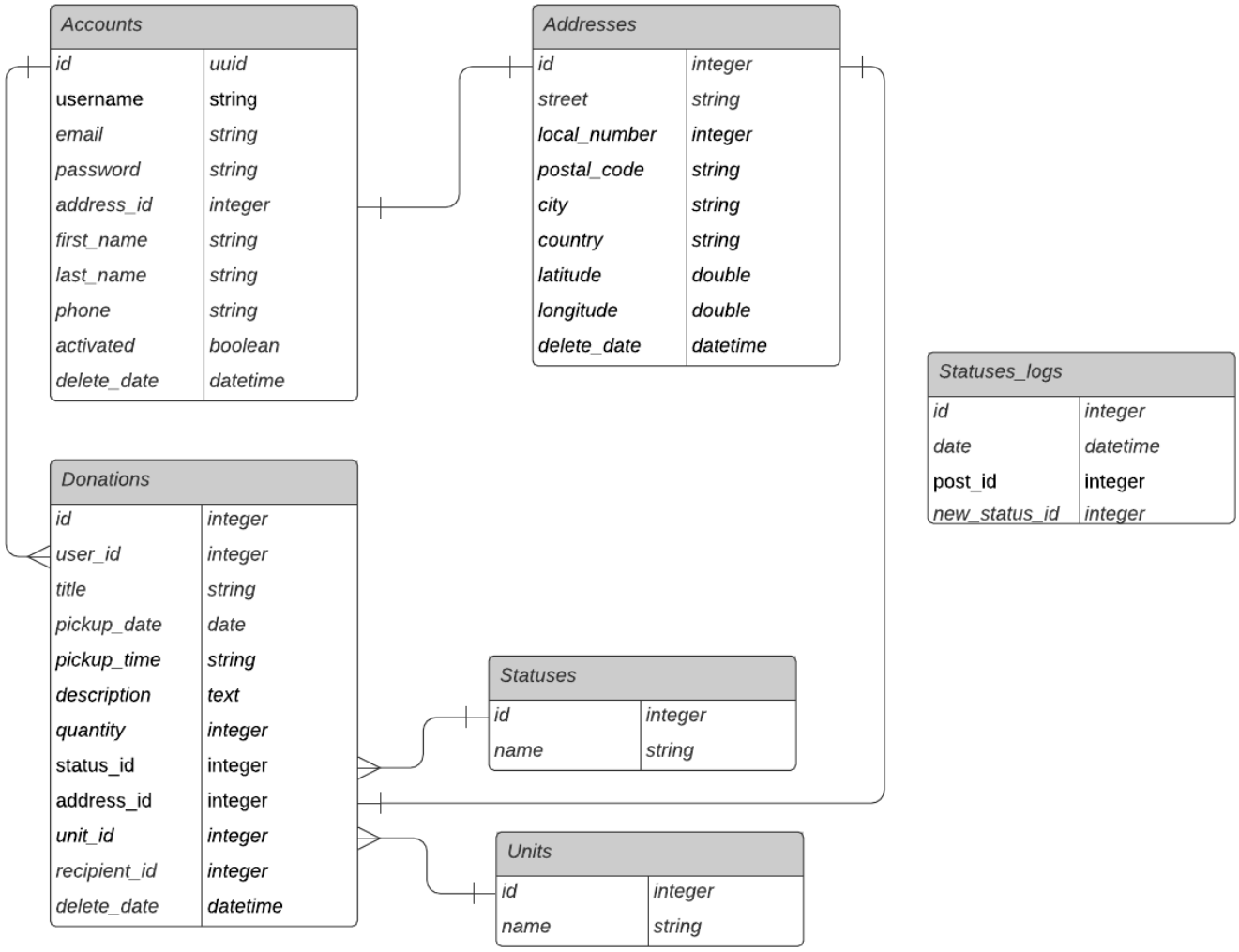
3.3 System Integration

Website rendering on Client-Side, only a single request will be made to the server to load the main skeleton of the app. Content is then dynamically generated.

4. Application Domain

Application will be hosted on domain: foodpin.pl

5. Database ERD Design



6. User Interface

6.1 UI Design in Figma

https://www.figma.com/file/HiwKloEUw7QQ346L1nbJl4/mobileFoodPin?node-id=0%3A1

7. Reference Documents

Jira:
https://robertmatlag.atlassian.net/secure/RapidBoard.jspa?rapidView=3&projectKey=FOOD&view=planning&selectedIssue=FOOD-5&issueLimit=100