

## SparkBytes Documentation

SparkBytes is a web application dedicated to addressing two important challenges at Boston University: Food waste from over-purchasing and community food access. SparkBytes aims to solve these problems by making it possible for members of the BU community to locate and pick up free, delicious food!

### Tech Stack

Frontend: React + Typescript, Ant Design library, Figma

Backend: Firebase: Firestore and Authentication + Google OAuth

### Key Features

#### Food Availability Tracking:

- Real-time food counter shown on the event detail page that increments and decrements according to the host preferences.

#### Event Geolocation + Time Travel Calculation:

- Implemented Mapbox API to calculate user-to-event travel distance and ETA

#### Event Detail View:

- Display location, time, food types, and reviews with custom tags.

#### Event Feedback:

- Allows users to leave star ratings and comments, sorted by most recent. Limit one comment per event per user.

#### Event Hosting:

- Allows hosts to create and edit event information. Supports images and descriptions in the event details.

#### User Profile:

- Stores food preferences, dietary restrictions, and addresses. Displays host and attendee roles.

## Notifications

- Toggle for enabling food/event notifications on profile. Creates reminders for upcoming events.

## RSVP System:

- Allows users to RSVP and un-RSVP to events.

## Event Discovery:

- Homepage map of events using geocoded pins, as well as a carousel and list views that the user can toggle between. Includes search bar and pagination for scalable event display.

## Installation and Setup

```
git clone https://github.com/simransingh19/sparkbytes.git  
cd sparkbytes
```

## Install Dependencies

```
npm install antd
```

```
npm init
```

```
npm install -- save firebase
```

```
npm install react
```

## Contact

sparkbytes@gmail.com

---

*Last updated May 1, 2025*