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CROWDCOMPASS

*REVOLUTIONIZING YOUR
EXPERIENCE IN MADRID*

Real-time Crowd Monitoring App

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**PROBLEM: Don't
know when is
the best time to
go somewhere**

**Solution:
Crowdcompass**

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Project Goals

Make the user in control of their eating decisions by informing them of the crowdedness level of various restaurants

01

Solutions

Provide user a clear solution to their problem of not wanting to leave their houses due to crowded places



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Wait Time

Reduce waiting time/long lines

03

Experience

Lets tourist and locals enjoy Madrid's best places at their best times.

04

Business

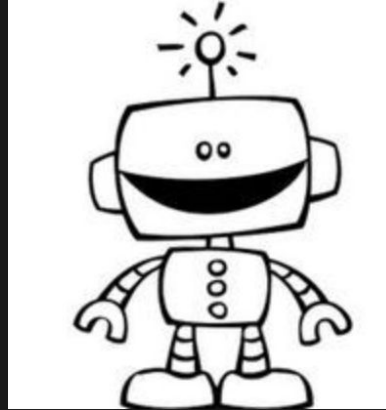
Incorporate most of Madrid big businesses

Features



Real-Time Crowd Data

Updates real time



User-Friendly Interface

Easy for user to understand the app



Search Functionality

Allows user to search for desired restaurant

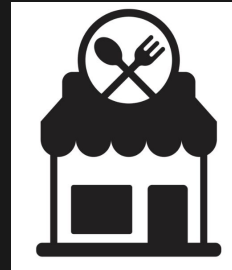
Target AUDIENCE

Locals and Tourists in
Madrid



Young Adults and old
people

Nightlife
enthusiasts



Business and
restaurants



Benefits



Time Management



Improved Customer
Experience



Data-Driven
Business Decisions



Social Responsibility:
Avoiding
Overcrowding

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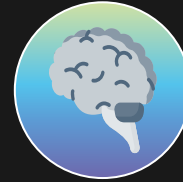
Challenges and Solutions



Potential Issues in Data Accuracy



User Engagement
Challenges



Mitigation Strategies

Marketing and Outreach

Social Media
Campaigns

Partnerships
with Local
Businesses

Word-of-Mouth
Strategies



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A look into the code...

Big picture: Using the Streamlit library, we created a user interface with buttons, text input boxes, and a progress bar. The data that the admin user writes into the app is stored as a json file that is later read by the user.

The application features 7 functions:

- read_data()
- write_data()
- crowdedness_score(count, capacity)
- admin()
- user()
- login_page()
- app()

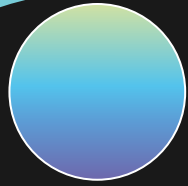
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Talk is cheap.

Show me the code.

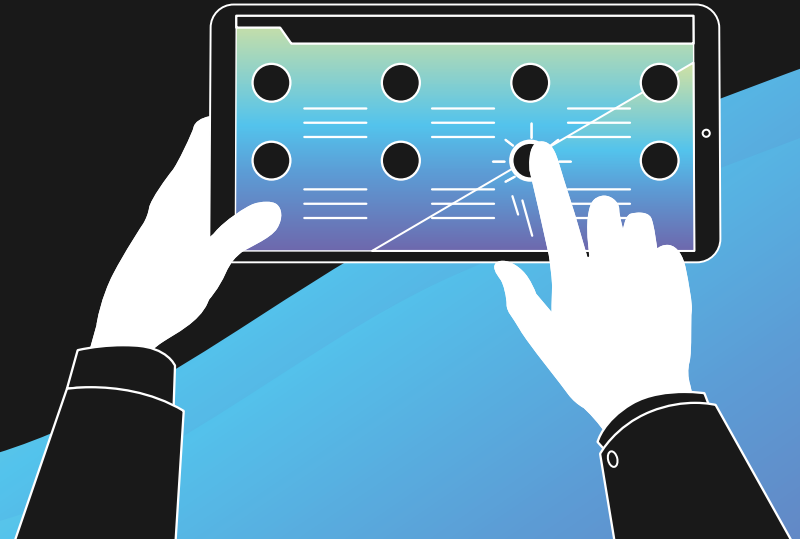
Linus Torvalds



Live Demo

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Crowdsourcing data



Feedback and
contributions



After the
experience



Benefits and
incentives

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03

Data privacy & security

Authentication, deletion and user consent



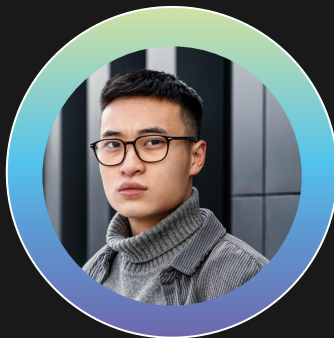
Use cases



“Crowd Compass has saved me hours of queueing, I’m so thankful”

—MARIE

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“Thanks to Crowd Compass I can know how to allocate the resources of my restaurant way better”

—TOM

Evolution

- Get social media influencers to promote our application to increase exposure and establishment involvement,
 - Implement a personal page where users can save all their favorite restaurants to for convenient access.
 - Implement a notification system
 - Data analytics (ex: implement external API's to take into account weather conditions to predict crowdedness)
 - Incorporate other Madrid establishments (banks, gyms, local stores, etc.)
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Thanks for your attention

