

Project Differentiation

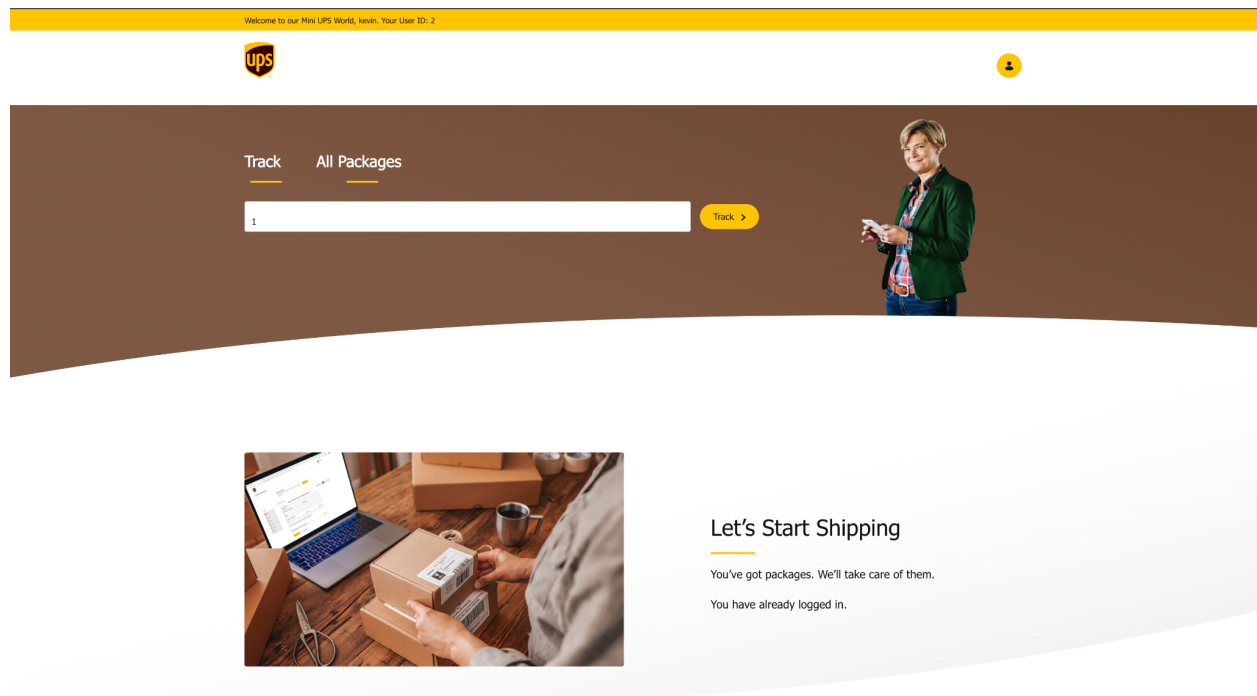
Extra Feature 1: Modern and Clean User Interface (UI)

Intuitions:

Our Mini UPS boasts a modern and clean user interface, designed with the user experience in mind. The intuitive layout and visually appealing design make navigation a breeze, allowing users to quickly access essential features and information. The minimalist approach to the UI reduces clutter and ensures a seamless user experience across various devices, including smartphones, tablets, and desktop computers. With its carefully selected color scheme and typography, the Mini UPS not only provides a visually appealing platform but also fosters increased usability and user satisfaction.

Examples:

Main page



Extra Feature 2: Real-time Package Distance Tracking

Intuitions:

The Mini UPS offers real-time tracking of package distances from the owner, giving users peace of mind and a sense of control over their shipments. With this feature, users can easily monitor their package's progress as it travels across the globe. By utilizing advanced GPS technology and integration with our logistics partners, the Mini UPS displays accurate and up-to-date

location information for packages. This allows users to plan their schedules accordingly and stay informed about their shipments' whereabouts at all times.

Implementations:

We set up a separate thread to query the world for truck location (UQuery) every 5 seconds, and then updated the database after UTruck information came back. Then, in our front end, we can retrieve from the database to display this information and calculate the distance from the owner to the truck with the package.

Here is your tracking info!

Shipment ID: 1

Shipment Warehouse Location: 1

Shipment Destination: 10, 10

Truck ID: 1

Shipment Status: created

Truck Location: 10, 10

Distance to Owner: 0.0 km

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Extra Feature 3: Email Notification Upon Account Sign-Up

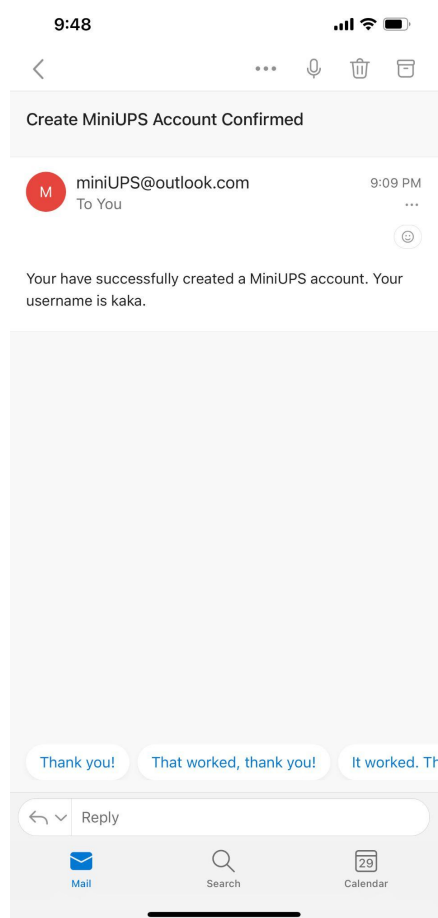
Intuitions:

To enhance the user experience and ensure seamless communication, the Mini UPS sends an email notification when a new account is created. Upon signing up, users receive a personalized welcome email containing essential information, such as their account details. This email serves as a warm welcome to the Mini UPS community and provides users with immediate access to important features and support. Additionally, this feature helps users to verify their email address, ensuring the security and authenticity of the accounts created on our platform.

Implementations:

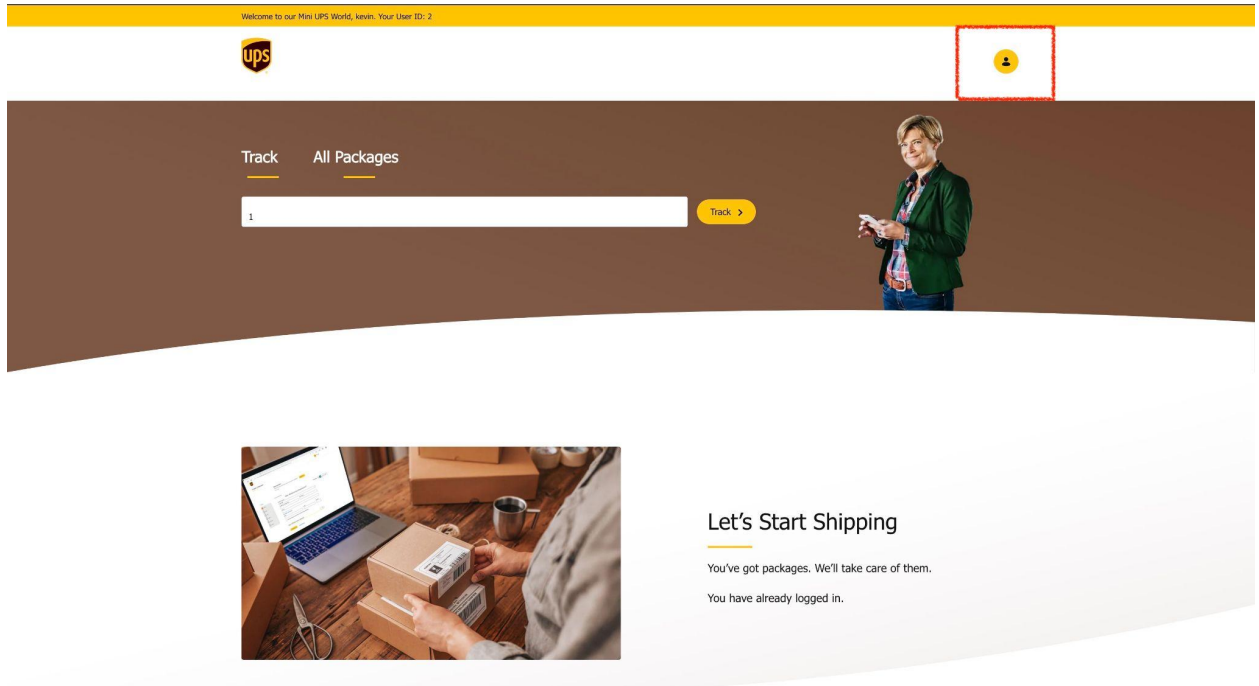
We use Django built-in `send_email` function to send this content to the user when the user successfully created an account in our Mini UPS.

```
send_mail(  
    'Create MiniUPS Account Confirmed',  
    'Your have successfully created a MiniUPS account. Your username is ' + username + '.',  
    'miniUPS@outlook.com',  
    email_list,  
    fail_silently=False,  
)
```



Other things:

1. When already logged in, the upper right corner icon can be clicked to log out.



2. To run the Docker, follow these steps:
 - a. Go to folder /ups/, then run:
 - i. `sudo chmod 777 initserver.sh`
 - ii. `sudo chmod 777 runserver.sh`
 - b. In the top level /erss-project-yl906-jl1188: `sudo docker-compose up`
3. To run the Backend program (WorldSideComm) locally:
 - a. Make a 'ups' database, and modify username + password information in the following places:
 - i. /ups/ups/settings.py
 - ii. /WorldSideComm/src/main/resources/hibernate.cfg.xml
 - iii. /docker-compose.yml
 - b. Run main by: `./gradlew run`