EatsExpress.

Team Members and their Roles:

- Rodyna Amr

Role:

Full-stack developer, transforms design concepts into interactive and visually appealing user interfaces. Their expertise in HTML, CSS, JavaScript,FLASK and RestfulAPI, web page error handling.

- Mohamed Essam
- Mohamed Yasser

Role:

back-end developers. Together, We built and maintained the server-side logic, storage system using SQLAlchemy & JSON.

How was the story of our project was inspired?

Our EatExpress project was inspired by our own experiences of browsing and discussing different ideas until we found the best concept to work on. This collaborative effort made us realize the need for a simpler, more efficient way to order food from local restaurants. We decided to implement these ideas into our project, aiming to create an app that streamlines the process of choosing and ordering meals.

Technology & Architecture

Technology & Architecture

Front-End:

- **HTML & CSS:** Structure and style for a user-friendly interface.
- **JavaScript:** Enhances interactivity and functional.

Back-End:

- **Flask:** Manages server-side logic and templates
- **ORM**: Simplifies database interactions using Python objects.
- **JSON:** For reading and storing data flexibly.

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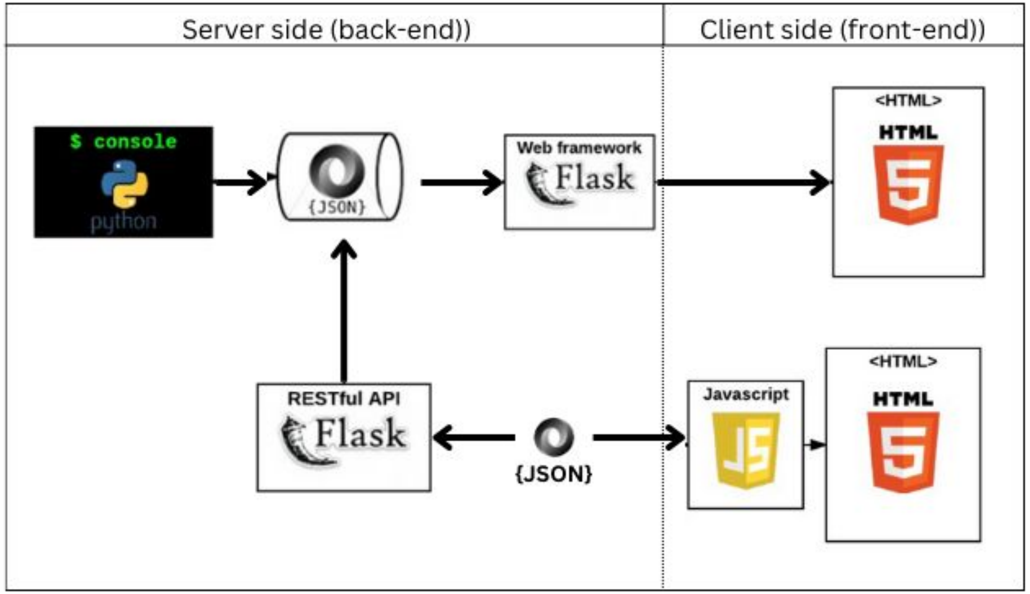
Technology & Architecture

Collaboration & Version Control:

- **Discord:** Real-time team communication.
- **GitHub:** Version control and code repository management.
- **Trello:** Task organization and project management.
- **Hosting**: Python Everywhere

Technology & Architecture



This diagram shows the steps we used in project architecture.

Core Algorithms

Core Algorithms

User Authentication:

Purpose: Securely register and authenticate users.
Steps:

- Hash user passwords before storing them.
- Verify user credentials during login.

Process:

- Registration: Collect user details, hash password, store in the database.
- Login: Validate user credentials

Core Algorithms

Restaurant Browsing and Menu Selection

Purpose: Allow users to explore restaurants and select items.

Steps:

- Fetch restaurant data from a JSON file on the server.
- Display restaurant list and menu items.
- Enable users to search and filter restaurants.

Process:

- Backend reads restaurant details from a JSON file and sends the data to the client.
- Front-end displays the restaurant list and handles user interactions.
- Menu items are dynamically loaded based on user selection.

Core Algorithms

- Order Processing

Purpose: Enable users to place and manage orders.

Steps:

- Collect order details from the user.
- Validate and store order information in a JSON file.
- Update order status as it progresses.

Process:

- **User Action**: User selects menu items and places an order.
- **Validation and Storage**: Order details are validated and recorded in a JSON file.
- **Real-Time Tracking**: Users can track order status in real-time.

Core Algorithms

Delivery Tracking

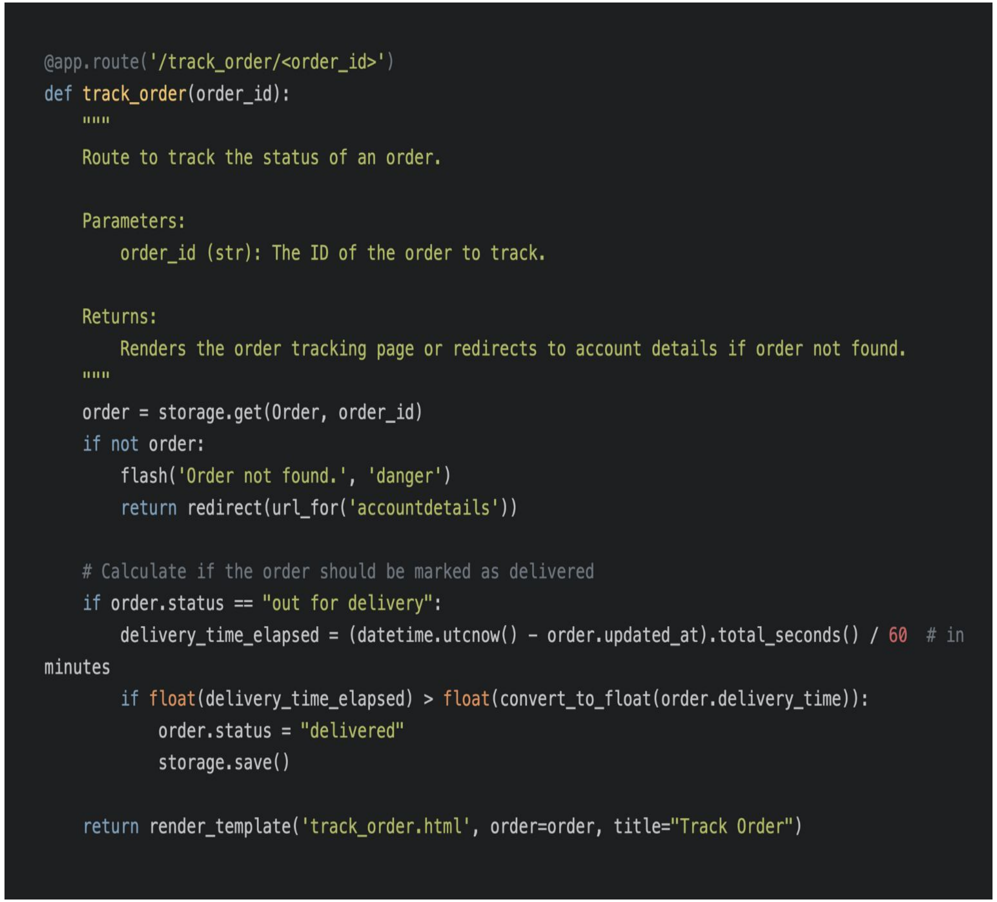
Purpose: Track the status and location of deliveries.

Steps:

- Update delivery status in JSON file.
- Provide real-time tracking information to user.

Process:

- **Status Update**: Delivery status is updated by the delivery personnel in the JSON file.
- **Real-Time Updates**: Users receive real-time updates on the delivery status.



```
@app.route('/track_order/<order_id>')
def track_order(order_id):
    """
    Route to track the status of an order.

    Parameters:
        order_id (str): The ID of the order to track.

    Returns:
        Renders the order tracking page or redirects to account details if order not found.
    """
    order = storage.get(Order, order_id)
    if not order:
        flash('Order not found.', 'danger')
        return redirect(url_for('accountdetails'))

    # Calculate if the order should be marked as delivered
    if order.status == "out for delivery":
        delivery_time_elapsed = (datetime.utcnow() - order.updated_at).total_seconds() / 60  # in
minutes
        if float(delivery_time_elapsed) > float(convert_to_float(order.delivery_time)):
            order.status = "delivered"
            storage.save()

    return render_template('track_order.html', order=order, title="Track Order")
```

Process, Collaboration and Timeline

Process, Collaboration and Timeline

1-Planning and Ideation:

- Identified the core features and functionalities required for the EatsExpress application.

- Collaborated as a team to evaluate various frameworks, such as Django and Flask, and determined that Flask was the best fit for our project needs.

Process

Process, Collaboration and Timeline

2-Design:

- Created wireframes and mockups for the user interface using design tools such as Figma

- Developed a user-friendly and intuitive design, focusing on seamless navigation and a visually appealing layout.

Process

Process, Collaboration and Timeline

3-Development:

Front-End:

- Used HTML, CSS, and JavaScript for building the user interface.
- Implemented responsive design to ensure compatibility across various devices.
- Integrated real-time search and filtering features for restaurants and menu items.

Process

Process, Collaboration and Timeline

3-Development:

Back-End:

- Set up a Flask server with ORM for database interactions.
- Implemented secure user authentication
- Used JSON for reading and storing data.

Process

Process, Collaboration and Timeline

- The project team comprised front-end developers, back-end developers,But at all we work together in everything
- Used project management tools like Jira and Trello to track progress and assign tasks.
- Regular stand-up meetings and sprint reviews through Discord.
- Utilized version control with Git and GitHub for collaborative coding and code reviews.

Process, Collaboration and Timeline

Week 1

- Established team roles and responsibilities
- Defined project scope and objectives
- Selected project name: Eats Express.
- Set up communication channels (e.g., Slack, Discord).
- Initiated initial project documentation and planning.

Timeline

Process, Collaboration and Timeline

Weeks 2-4

- **Week 2-3:** Implemented core functionalities: frontend with Html,CSS and backend with Flask.
- **Week 4:** Integrated API endpoints for user interactions (e.g., restaurant listing, order placement).
- Conducted regular virtual meetings for progress updates and issue resolution.

Timeline

Process, Collaboration and Timeline

Weeks 5-6

- Refined UI/UX design and frontend interactions based on feedback
- Optimized backend performance and JSON File

Timeline

Process, Collaboration and Timeline

Week 6

- Prepared deployment scripts and configurations
- Conducted final testing and debugging
- Ensured error handling mechanisms were in place

Timeline

Process, Collaboration and Timeline

Challenges Overcome

Challenges Overcome

- **Integration Challenge:** Ensured the frontend and backend parts of our app worked well together
  - Fixed issues with data transmission between frontend and backend
  - Resolved communication problems to ensure smooth interactions

Challenges Overcome

- **Team Collaboration:** Maintained close teamwork to overcome challenges.
  - Constantly tried different solutions and iterated on fixes.
  - Collaborated closely to ensure alignment and progress.

Challenges Overcome

- challenges react frontend but ,
  due to time crunch we used
  HTML.

- Faced an issue with order tracking before the presentation deadline, which we resolved by optimizing our tracking algorithm for real-time updates.

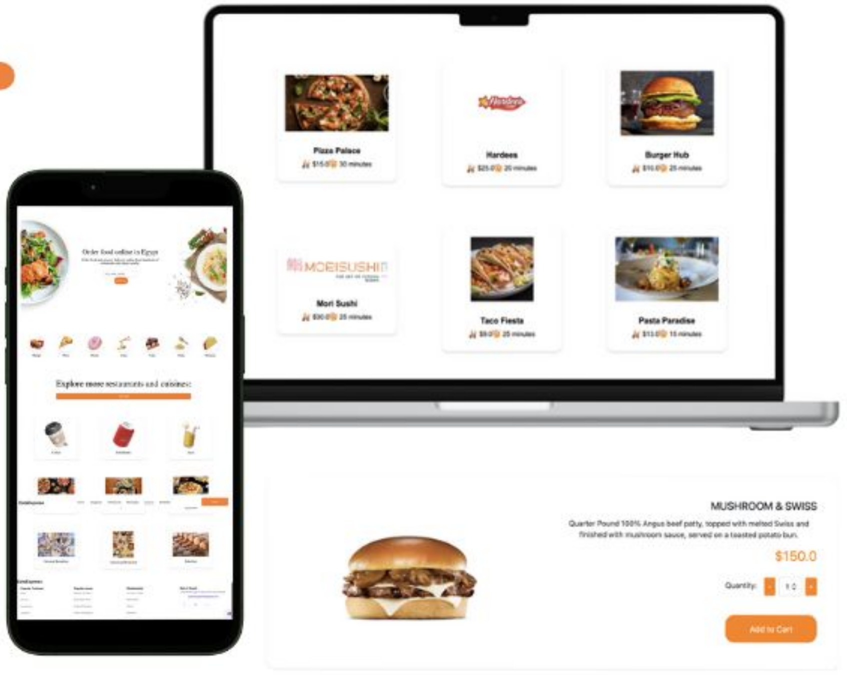
Learnings About Technical Interests

Challenges Overcome

- Enhanced Understanding of Full-Stack Development:
  - Working on EatExpress provided a comprehensive insight into both front-end and back-end development, deepening our understanding of how different technologies interact.
- Focus on Security Best Practices:
  - Handling user authentication and ensuring data security highlighted the importance of security in web development

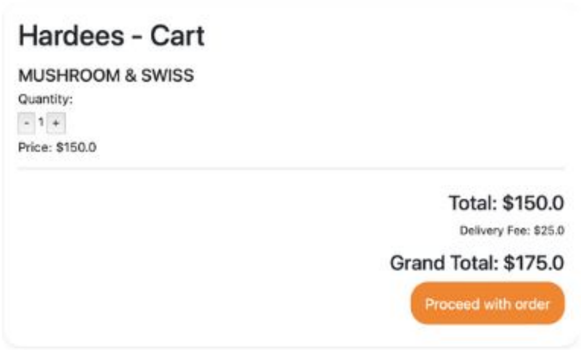
EatsExpress.

Browse your favourite food anywhere, anytime.



Quarter Pound 100% Angus beef patty, topped with melted Swiss and finished with mushroom sauce, served on a toasted potato bun.

EatsExpress.



Hardees - Cart

MUSHROOM & SWISS

Quantity:

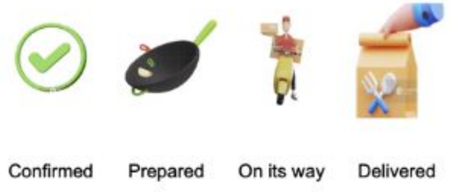
Price: $150.0

Total: $150.0

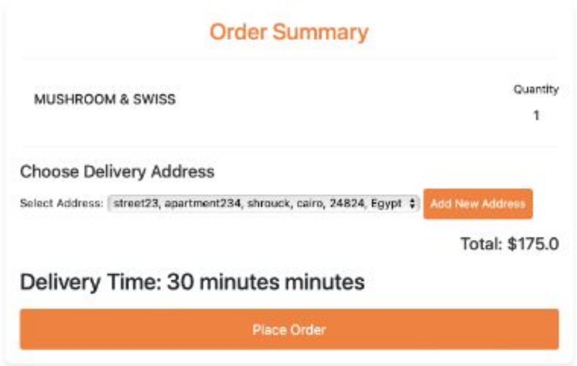
Delivery Fee: $25.0

Grand Total: $175.0

Place Your order



Status: Delivered



Order Summary

MUSHROOM & SWISS	Quantity
	1

Choose Delivery Address

Select Address: street23, apartment234, shrouck, cairo, 24824, Egypt

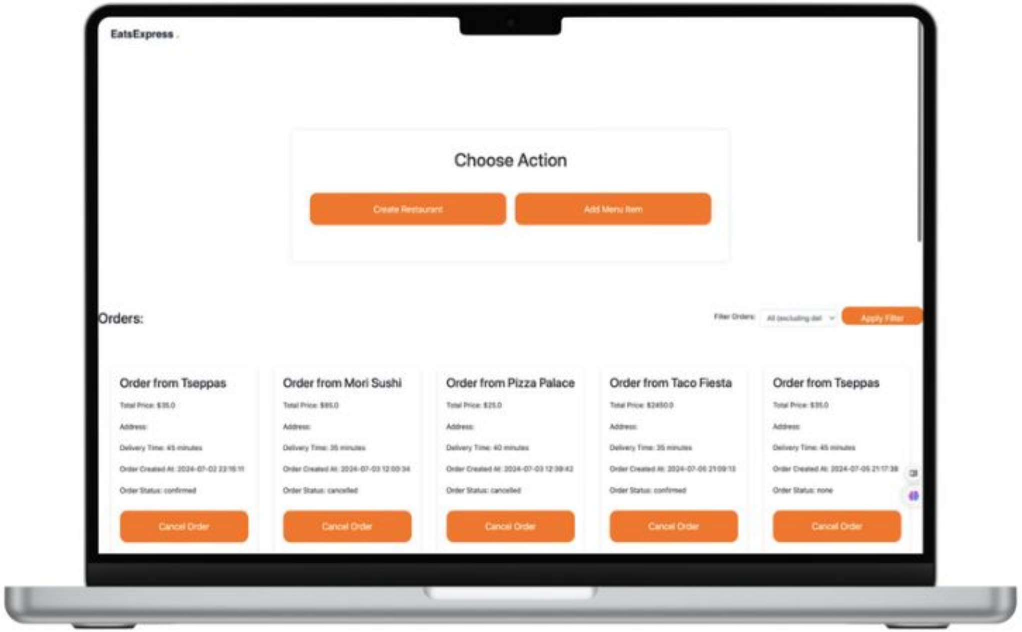
Total: $175.0

Delivery Time: 30 minutes minutes

View Cart

Track Your Order

Worried about webapp managment?



Orders:

Order from Tseppas
Total Price: $35.0
Address:
Delivery Time: 45 minutes
Order Created At: 2024-07-02 23:16:11
Order Status: confirmed

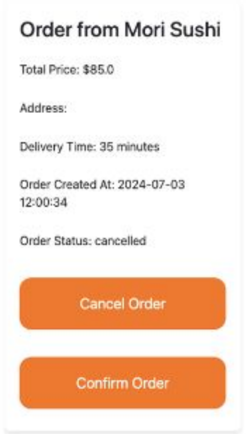
Order from Mori Sushi
Total Price: $85.0
Address:
Delivery Time: 35 minutes
Order Created At: 2024-07-03 12:00:34
Order Status: cancelled

Order from Pizza Palace
Total Price: $25.0
Address:
Delivery Time: 40 minutes
Order Created At: 2024-07-03 12:39:42
Order Status: cancelled

Order from Taco Fiesta
Total Price: $2450.0
Address:
Delivery Time: 35 minutes
Order Created At: 2024-07-05 21:09:13
Order Status: confirmed

Order from Tseppas
Total Price: $35.0
Address:
Delivery Time: 45 minutes
Order Created At: 2024-07-05 21:17:38
Order Status: none

No worries!!, we made simple UI for Admins.



Order from Mori Sushi

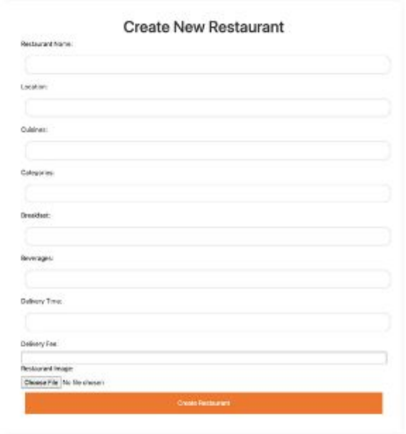
Total Price: $85.0

Address:

Delivery Time: 35 minutes

Order Created At: 2024-07-03 12:00:34

Order Status: cancelled



Create New Restaurant

Restaurant Name:

Location:

Cuisines:

Categories:

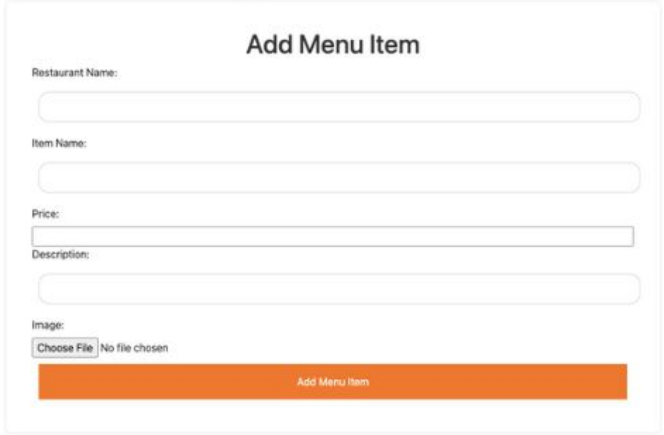
Breakfast:

Beverages:

Delivery Time:

Delivery Fee:

Restaurant Image:



Add Menu Item

Restaurant Name:

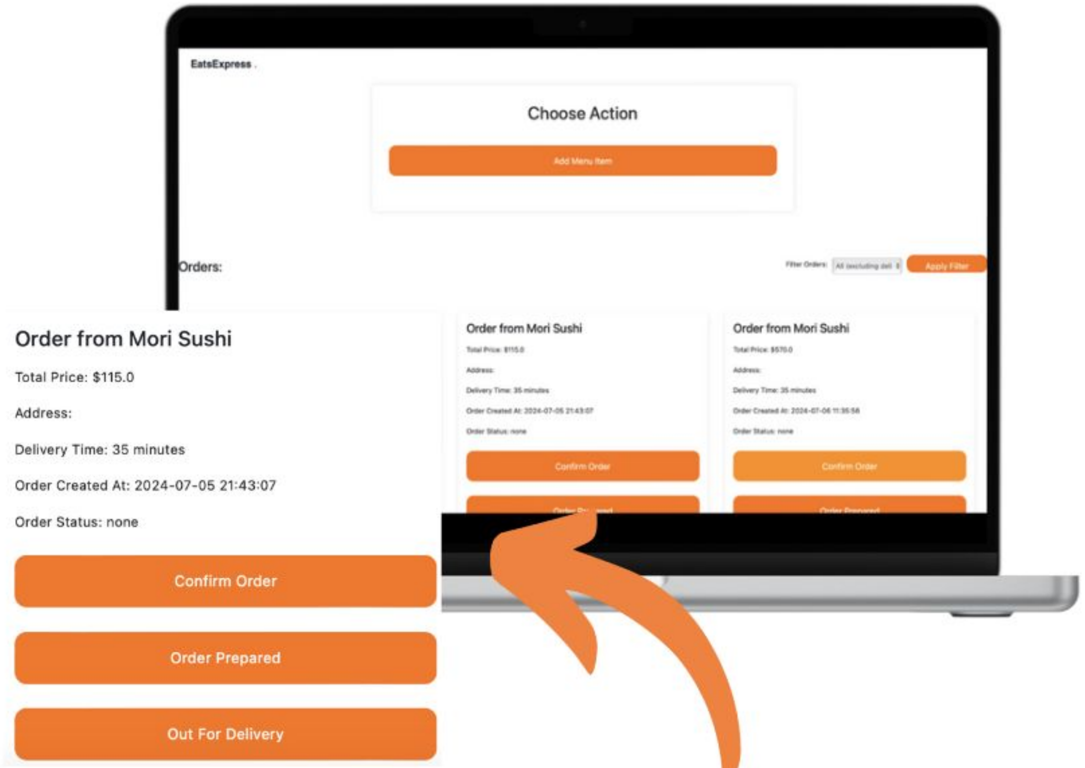
Item Name:

Price:

Description:

Image:

How will restaurants update order status??



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Choose Action

Orders:

Filter Orders: All (excluding del

Order from Mori Sushi

Total Price: $115.0

Address:

Delivery Time: 35 minutes

Order Created At: 2024-07-05 21:43:07

Order Status: none

Order from Mori Sushi

Total Price: $570.0

Address:

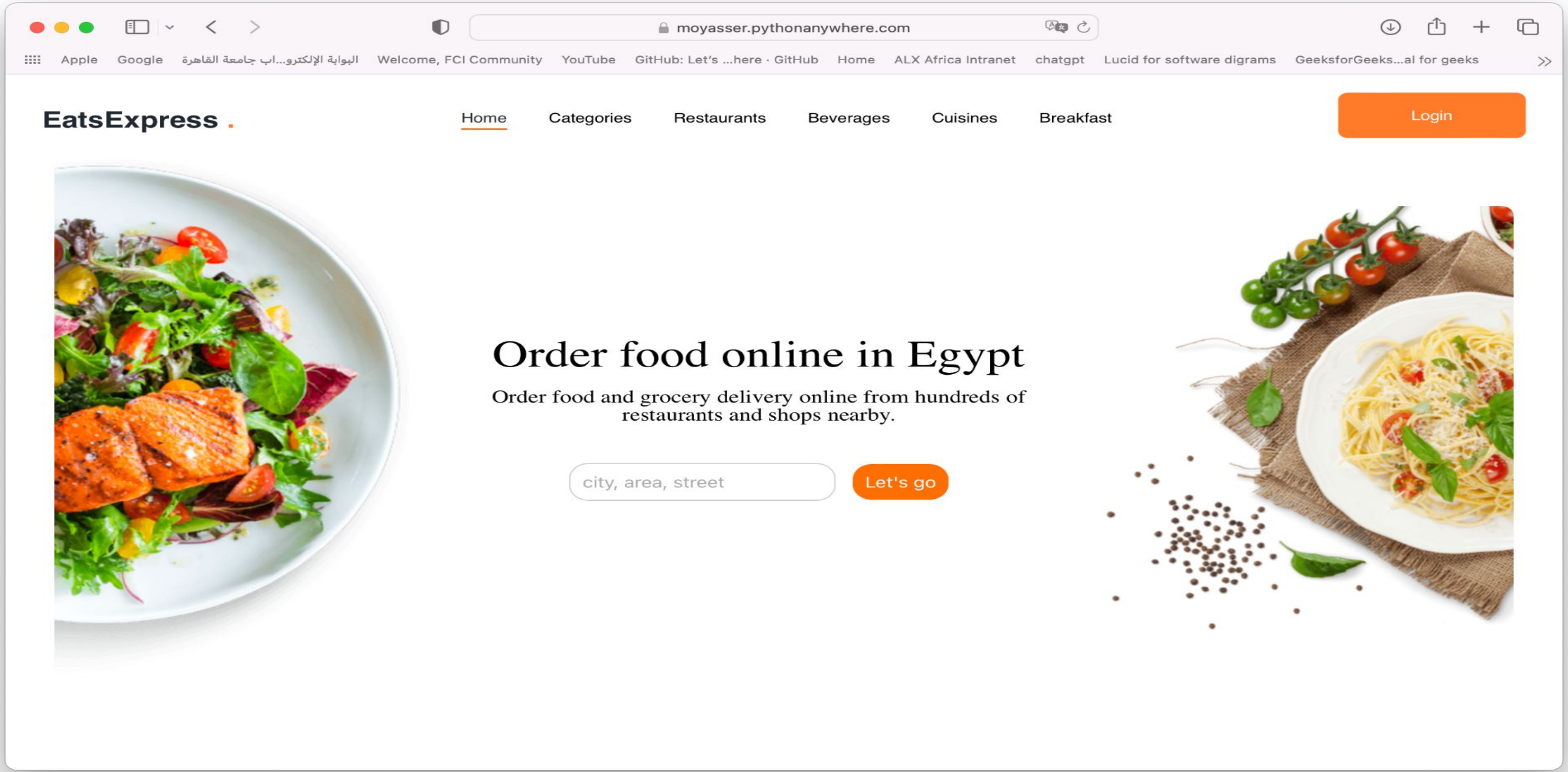
Delivery Time: 35 minutes

Order Created At: 2024-07-06 11:35:56

Order Status: none

With a click of a button

Here we will show the live demo for our application.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GeeksforGeeks...al for geeks

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Order food online in Egypt

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city, area, street

Let's go

Thanks For Listening!!

Any Question?