Day 2 Hackathon Report: Planning The Technical Foundation 🛪

1. Technical Plan Aligned with Business Goals

Comforty's technical plan reflects its goal to create a **seamless e-commerce platform** by focusing on:

- **Customer-centric design:** Responsive and intuitive UI/UX.
- **Secure transactions:** Data encryption and trusted payment gateways.
- Streamlined logistics: Real-time order tracking and scheduled delivery options.

2. System Architecture Visualized

The architecture includes:

- **Frontend**: Built with Next.js and Tailwind CSS.
- **Backend**: Sanity CMS for content management.
- Third-Party APIs:
 - o Payment Gateway (Stripe, PayPal).
 - Shipment Tracking for real-time updates.

Workflows:

• General E-Commerce: Browsing, cart management, and order placement.

A downloadable **System Architecture Diagram** has been created. You can download it from the link below:

Download System Architecture Diagram

3. Detailed API Requirements Documented

Example APIs:

1. Products API:

2. Orders API:

1

```
Endpoint: /ordersMethod: POST
```

o Payload:

```
],
"totalPrice": 320,
"deliveryAddress": "456 Oak Lane"
}
```

o **Response**:

```
json
CopyEdit
{
    "orderId": "98765",
    "status": "Order placed",
    "estimatedDelivery": "2025-01-20"
}
```

4. Sanity Schemas Drafted

Example Schema: Product

```
typescript
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export default {
  name: 'product',
  type: 'document',
  title: 'Product',
  fields: [
      { name: 'name', type: 'string', title: 'Product Name' },
      { name: 'price', type: 'number', title: 'Price' },
      { name: 'stock', type: 'number', title: 'Stock' },
      { name: 'category', type: 'string', title: 'Category' },
      { name: 'image', type: 'image', title: 'Image', options: { hotspot: true } },
      { name: 'description', type: 'text', title: 'Description' }
```

] };

5. Collaborative Feedback Incorporated

- Feedback from mentors helped refine the **API designs** and **schema structure**.
- Adjustments made to **frontend workflows** to improve user experience.

6. Portfolio-Ready Submission

The polished documentation is ready for:

- Startup presentations to showcase scalability.
- **Job interviews** as an example of technical competency.

