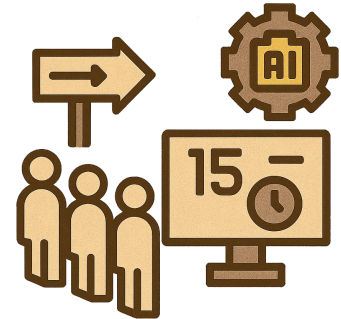## 3. QueueWise Pro – Advanced AI-Powered Smart Queue Management

- Long queues at public service centers lead to frustration and lost productivity.
- Current systems often lack real-time adaptability and accurate wait-time predictions.

Solution:

Develop an **AI-powered queue management platform** that:

- Predicts wait times with high accuracy
- Adapts dynamically to real-time changes in queue behavior
- Offers personalized recommendations to users
- **The system should aim to:**
    - Improve visitor experience by reducing uncertainty and wait times.
    - Help facilities better manage resources and crowd flow.

Required Core Features & AI Usage:

- **Wait Time Prediction**
- **Time Slot Recommendation**
- **Anomaly Detection & Alerts**
- **Bonus Challenges :**
  - **Real-Time Adaptation:**
  - **User Personalization:**
  - **Crowd Simulation**
  - **Multi-Center Optimization:**

Deliverables:

- A web or mobile app with a user interface for checking wait times and booking slots.
- Backend logic showing AI/ML model usage.
- Documentation on how AI models were trained and evaluated