**Total time: 12-15min**

**1. Introduction – Yuelu Zhang (1min)**

* **Project Overview**: Briefly introduce the Urban Well-being Analysis and Intervention System. Outline the motivation for the project and its relevance to addressing urban challenges.
* **Objectives**: Describe the main goals, including real-time data collection, life event scoring, community-level analysis, and identifying root causes of issues in health, education, legal systems, and economic stability.

**2. System Capabilities and Architecture – Yulun Feng (1min)**

* **System Capabilities**: Present an overview of the system's key features:
  + Real-time data collection from smartphones and IoT devices
  + Life event scoring system for positive and negative events
  + Data integration at individual, family, and community levels
  + Analysis of well-being impact and root cause identification
* **System Architecture**: **(2min)**
  + Use the architectural diagram to explain the different layers: Data Collection, Processing, Storage, Application, Analysis, Reporting, Security, and Deployment.
  + Emphasize scalability and modularity in the architecture, along with the use of cloud technologies for data storage and analytics.
* **Data Flow**: Walk through how data is collected, processed, analyzed, and reported within the system.

**3. UI/UX Wireframes – Yuelu Zhang (2min)**

* **User-Centric Design**: Explain the design approach focused on simplicity and accessibility for both citizens and city officials.
* **Wireframes**: Showcase the main wireframes:
  + **User Dashboard**: Interface for users to view their well-being scores, trends, and personalized recommendations.
  + **City Dashboard**: Interface for city officials to view community-level data, health trends, and critical urban challenges.
  + Highlight interactive visualizations, such as charts for health trends and maps for community insights.

**4. Domain Models and Database Schema – Yulun Feng (1min)**

* **Domain Model Overview**: Present the key entities (e.g., User, Community, LifeEvent, UrbanIssue, etc.) and their relationships, explaining how they support data integration at multiple levels.
* **Database Schema**: Show the database schema, highlighting tables for health data, life events, community data, etc. Emphasize the database’s ability to support real-time updates and secure data storage.
* **Data Privacy and Security**: Discuss the measures taken to protect user privacy, such as encryption, pseudonymization, and compliance with data protection regulations.

**5. Data Analysis and Intervention Strategy – Yulun Feng (1min)**

* **Data Analysis Framework**: Describe the analytical methods applied (e.g., clustering, predictive modeling) to identify patterns and root causes.
* **Life Event Scoring System**: Explain the scoring model for categorizing life events and its role in determining individual and community well-being.
* **Impact Analysis**: Illustrate how the system evaluates the impact of individual life events on family and community well-being.
* **Intervention Insights**: Show how data insights can support city officials in making informed decisions regarding resource allocation.

**6. Challenge Scenarios and Solution Demonstration – Yulun Feng (1min)**

* **Case Studies**: Demonstrate how the system can inform city officials in choosing between resource allocation options (e.g., building a new hospital vs. investing in youth programs).
* **Example Analysis**: Present hypothetical examples or simulations showing how the data can influence decisions. For instance, if health data indicates a need for more healthcare resources in a neighborhood, the system would suggest building a new hospital.

**7. Privacy and Ethics Considerations – Yuelu Zhang (1min)**

* **Ethical Data Collection**: Discuss the ethical implications of data collection, emphasizing transparency and user control over their data.
* **Privacy Measures**: Highlight the system’s approach to ensuring data security, including encryption, anonymization techniques, and compliance with regulations (e.g., GDPR).
* **Community Trust**: Address how the system’s design respects user privacy and fosters trust among community members.

**8. Potential Impact and Scalability – Yulun Feng (1min)**

* **Impact on Urban Well-being**: Describe the expected outcomes of implementing the system, such as improved health, education, and economic stability in disadvantaged neighborhoods.
* **Scalability and Expansion**: Explain how the system’s modular design allows it to be scaled for different cities or expanded to cover additional urban challenges.
* **Future Directions**: Outline possible future developments, such as integrating AI for predictive analytics or expanding data sources.

**9. Implementation and Next Steps – Yuelu Zhang (1min)**

* **Implementation Strategy**: Discuss the phased approach for rolling out the system, starting with pilot neighborhoods, data collection, and initial analyses.
* **Stakeholder Collaboration**: Highlight the importance of collaboration with city officials, community leaders, and citizens in the implementation process.
* **Final Thoughts**: Conclude with a summary of the system's potential to bring meaningful improvements to community well-being and a call to action for stakeholders to support the project.