

## Home Exam – .NET Developer

**Build an architecture for a flight management system that receives price alerts and sends push notifications to users' mobile devices.**

### System Requirements

1. **Receiving Price Alerts:**
    - The system should receive flight price information from external sources (e.g., airline APIs or price comparison websites).
  2. **Sending Push Notifications:**
    - The system should send push notifications to users' mobile phones when prices that interest them are detected.
  3. **Alert Management (CRUD):**
    - The system should manage users' information and their alerts.
  4. **Support for High Loads:**
    - The system should be designed to handle high request and notification loads.
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### What Needs to Be Delivered:

- **Architecture Diagram**
    - A diagram illustrating the system architecture.
  - **Data Structures**
    - Define the data structures used in each component.
  - **Data Flow**
    - Show the flow of data between components.
  - **Implementation:**
    - Implement only Section 3 (Alert Management) at the code level.
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At the end, please upload the project to Git and share a download link.

**Good luck!**