

Assignment: System Design of CineSync



CSE 4537 : Server Programming

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Non-Functional Requirements of CineSync :

1. **Scalability** : The system should scale to simultaneously handle numerous users in many rooms.
2. **Security** : The system should ensure proper user authentication, secure media sharing, and privacy protection (e.g., encrypted chat).
3. **Cross-Platform Compatibility** : The app should behave consistently throughout different devices and browsers. Users should be able to join from mobile, tablet, or desktop.
4. **Localization & Accessibility** : The system should support multiple languages and accessibility features (like subtitles, translator service) to attract audiences worldwide.
5. **High Availability & Fault Tolerance** : The system should be available to the users for 99.9% of its service period and if one node fails, others should take over to maintain continuous movie sync and chat.

CineSync : High Level System Design

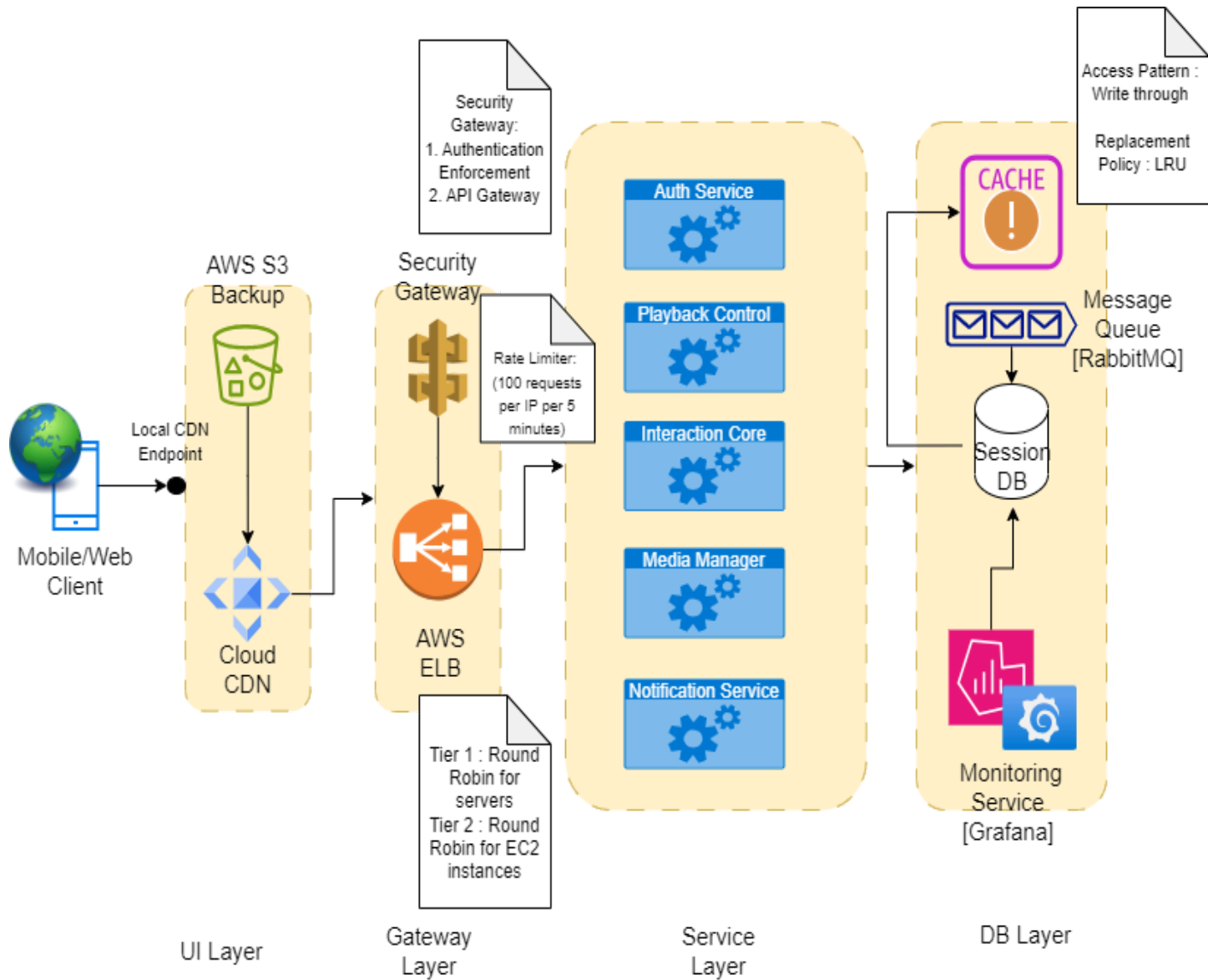


Fig 1.1 : High Level System Design of CineSync