



Application Development for Mobile and Ubiquitous Computing

Medical mobile registry application First Presentation

GroupNo. 14

Team:

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Medical Registry Application

Our application will serve as a tool that will enable medical staff to effectively maintain patients' medical records without ambiguity. This should provide a great reduction in the man hours wasted in most conventional hospitals without this application.

- Doctor visits patients at their home and he needs to store information about his visit. He uses his smartphone to store the patient's data on it.
- Our application should help in maintaining patient records. It enables to enter records into the database, update or modify the records and view the records in the database.
- It has an intuitive user interface for entering patient's data into the database by the doctor.

- Track patients in home environment, record patient information, create patient notes.
- Configure database connection settings
- Application records basic information such as:
 - Patient's ID, symptoms, disease
 - time, GPS coordinates
- Application synchronizes the locally stored information with the remote database
- Universal functionality. We design the application to be useful for any medical practitioner anywhere in the world.

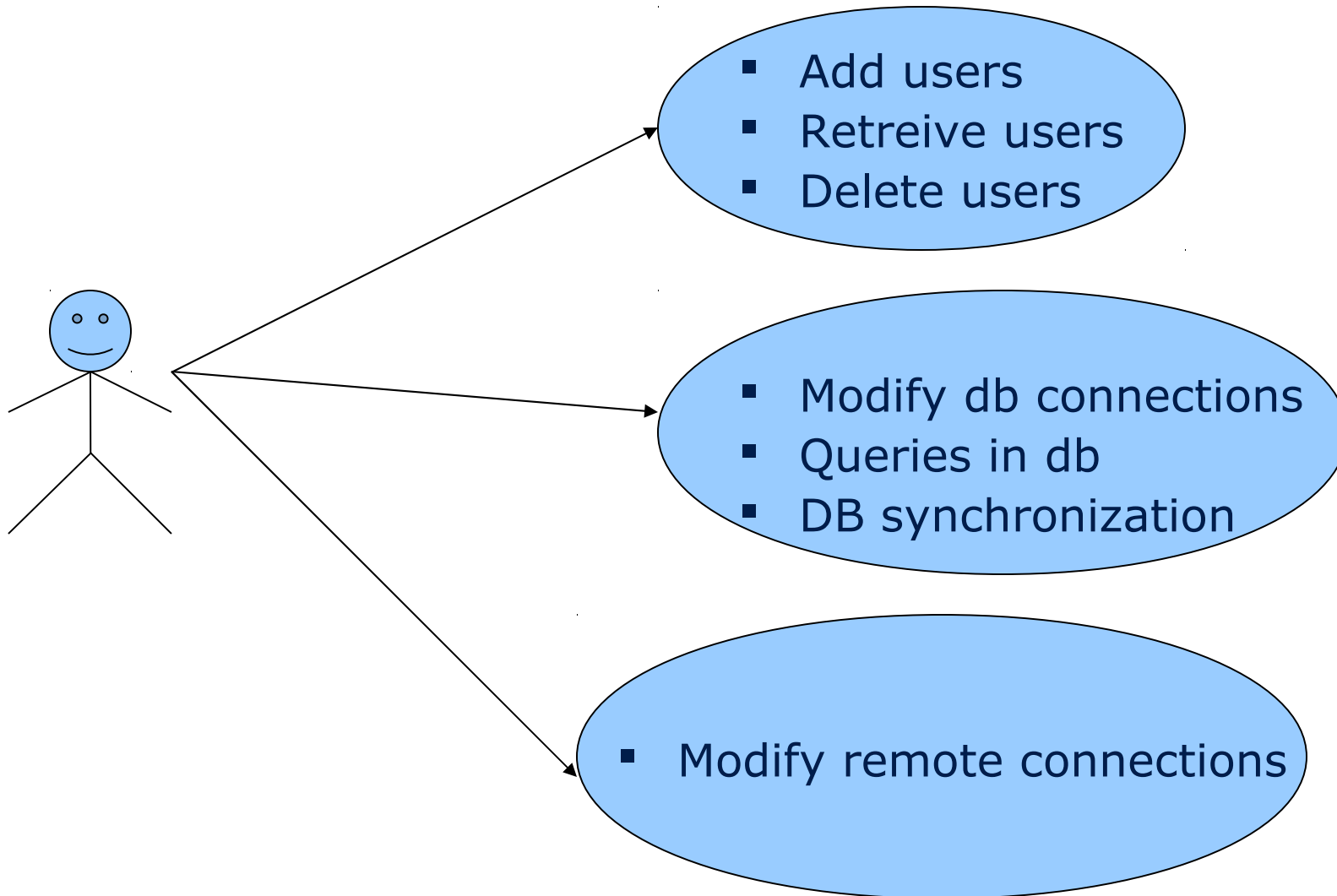


from



to

Application Scenario: Use Cases

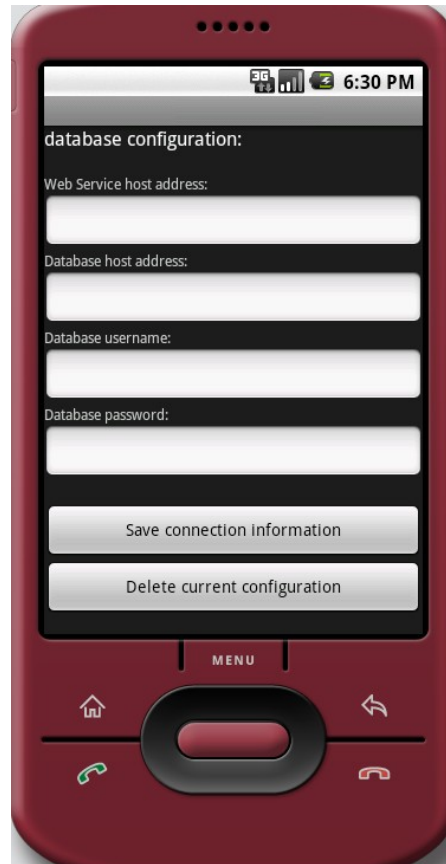


Application Scenario: Mockups

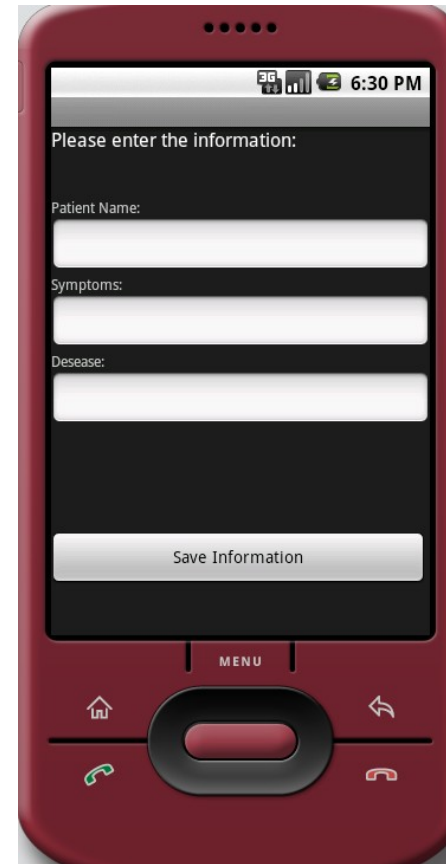
Main screen



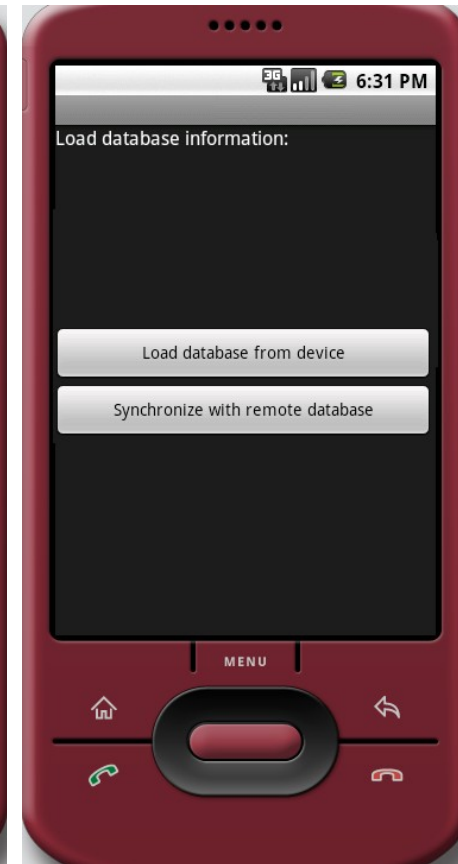
Database config



Inserting info



Synchronize with DB



Platform: Android

Client application

- JDK 6 (Java Development Kit 6)
- JRE (Java Runtime Environment)
- OSGi with Apache Felix

Server

- Apache Tomcat Application Server 5.5
- MySQL database server
- Client – Server communication: WebServices

- Integrate Java and OSGi in an Android platform
- Adaptive application structure for different scenarios
- Upload data from client to server using WebServices
- Getting information from the GPS
- User-friendly interface
- To have a centralized information sharing center

- 10-11-2010: Literature research
- 12-11-2010: Design a database
- 14-12-2010: First Prototype (client+server)
- 17-12-2010: Second Presentation
- 20-12-2009: Final Application Version
- 22-01-2011: Application Testing
- 28-01-2011: Final Presentation
- 04-02-2010: Submit the results