

# JAVA FOR SMARTPHONE

Appointment Scheduler  
Final Presentation

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# CONTENT

- System Overview
- Product Walkthrough
- System Design
- Lesson Learned
- Product Demo

# SYSTEM OVERVIEW

# INSPIRATION

- Frustrating experience with making appointment.
- Long wait time when visiting the doctor.
- To better manage appointments.

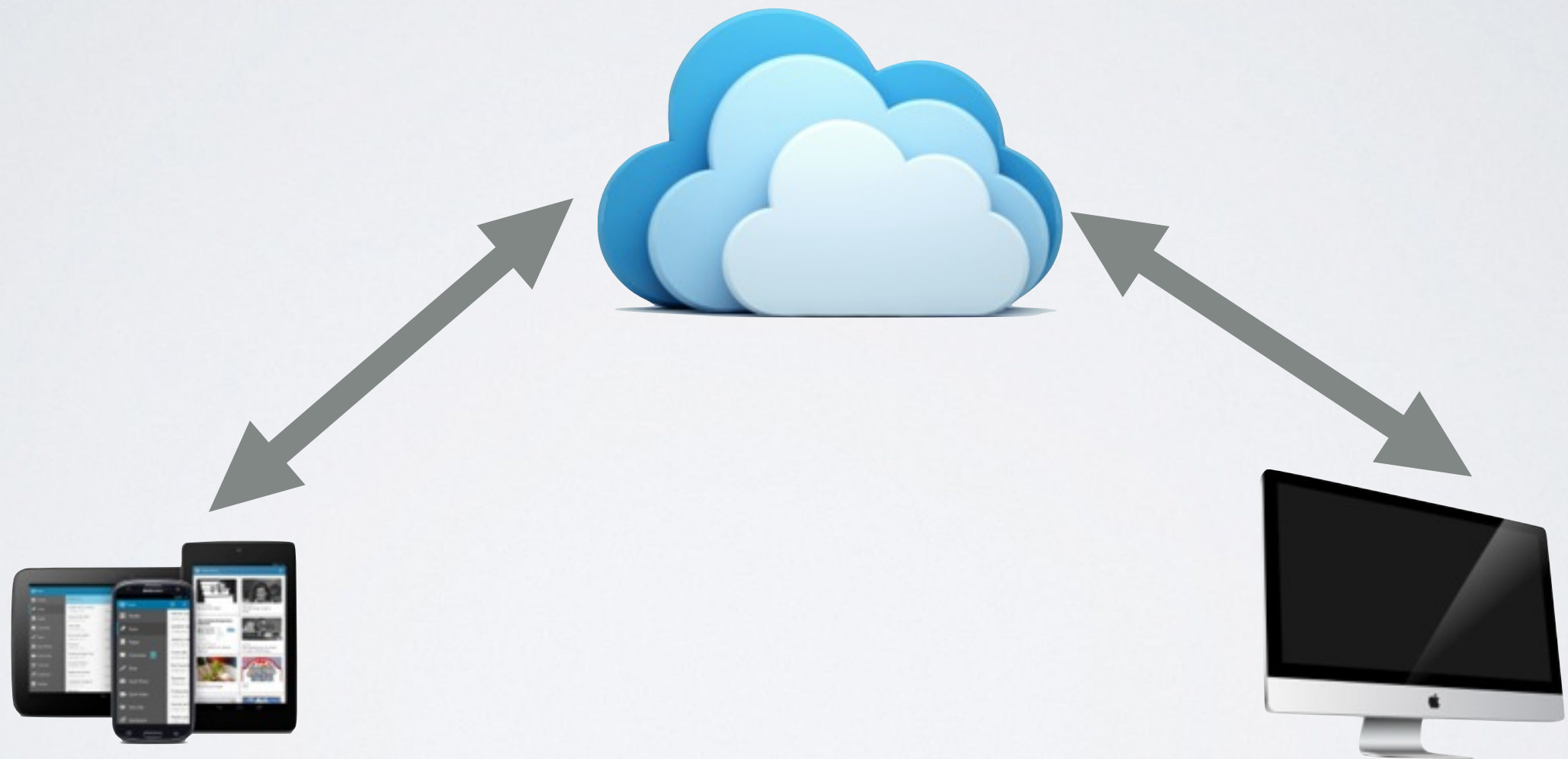
# PROJECT DESCRIPTION

- A system for patients to make appointments.
- A system for doctors to manage appointments.



# SYSTEM COMPONENTS

Data Server - Java + MySQL



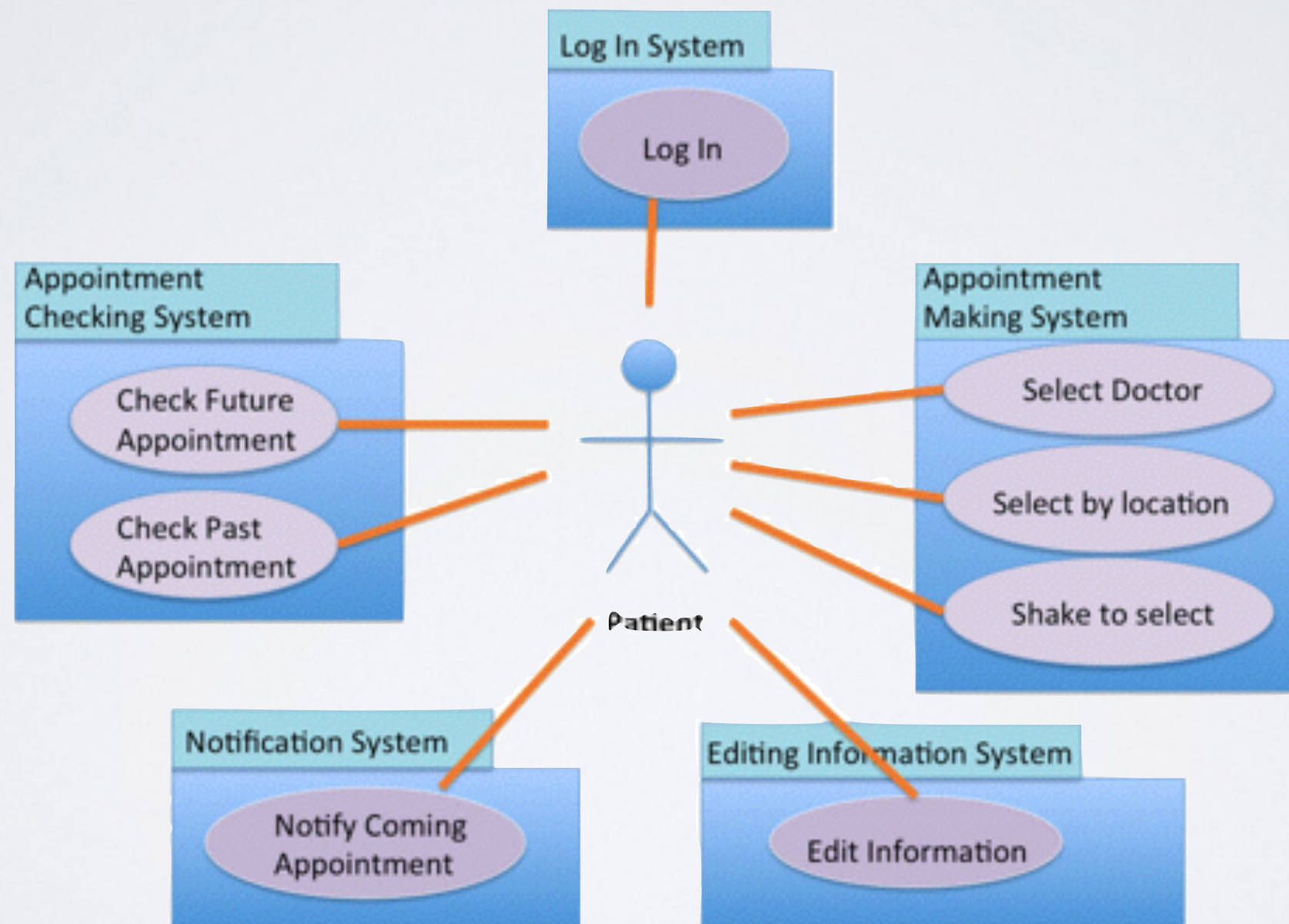
Patient App - Android

Doctor - Java Software


# PRODUCT WALKTHROUGH

- Patient Android App
- Doctor Java Application
- Data Server

# PATIENT ANDROID APP





 AppointmentScheduler

## Appointment Scheduler

User Name

Password

One finger swipe left to register

free for personal use

 Register Page

## Register

User Name

Name

Age

Sex(F/M/N)

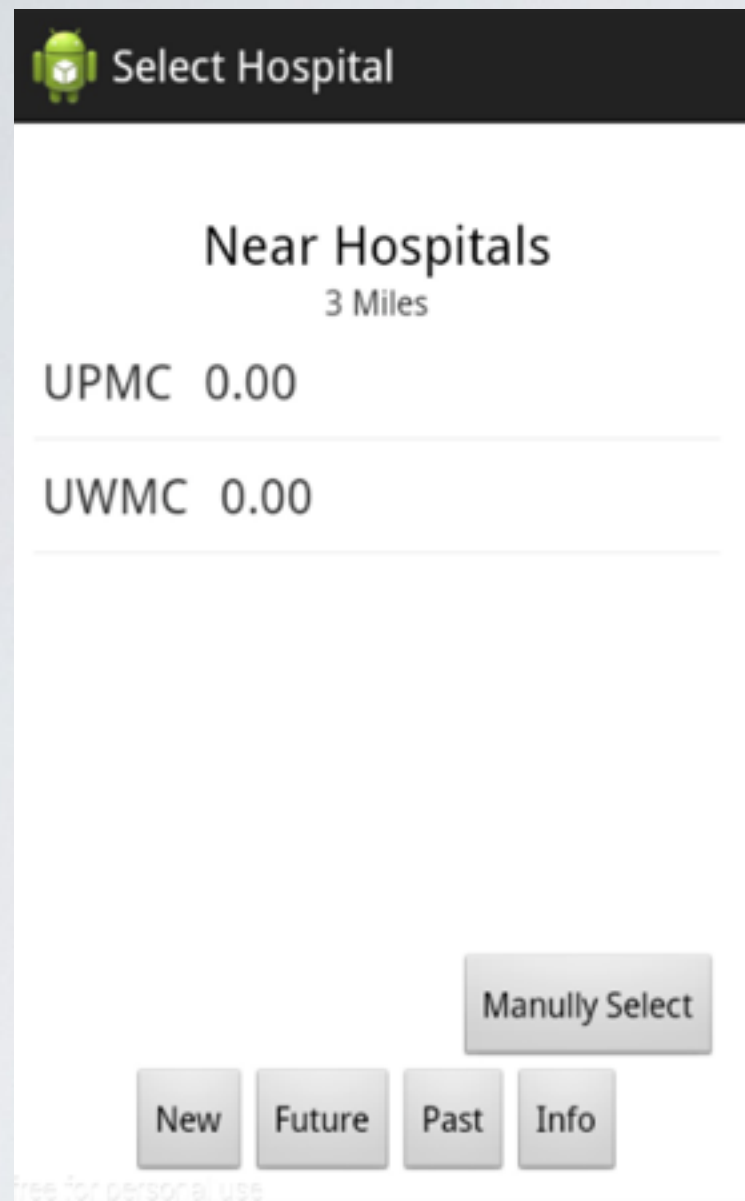
Insurance

Password

Password

free for personal use

Patient  
Sign Up & Sign In



User can get a list of hospital based on location

Patient  
Choose Hospital

Here user could see all the hospital and select one manually

The screenshot shows an Android application interface with a black header bar containing a green Android robot icon and the text "Select Hospital Manually". Below the header, the title "Select Hospitals Manually" is displayed. A dropdown menu is shown with "UPMC" selected and a downward arrow. Below the dropdown, the following information is listed: "Name: UPMC", "Address: 5000 Forbes, Pittsburgh, PA", and "Phone: 412444333". At the bottom, there are four buttons: "New", "Future", "Past", and "Info". A "Confirm" button is positioned above the "New" button. A small text "free for personal use" is visible at the bottom left of the screen.

Patient  
Choose Hospital

Battery widget Ctrl

## Select Doctor

Select Department

Cancer ▼

Select Doctor

JeanPollo ▼

Name:JeanPollo  
Speciality:BrainCancer  
Phone:4125576664

Confirm

New Future Past Info

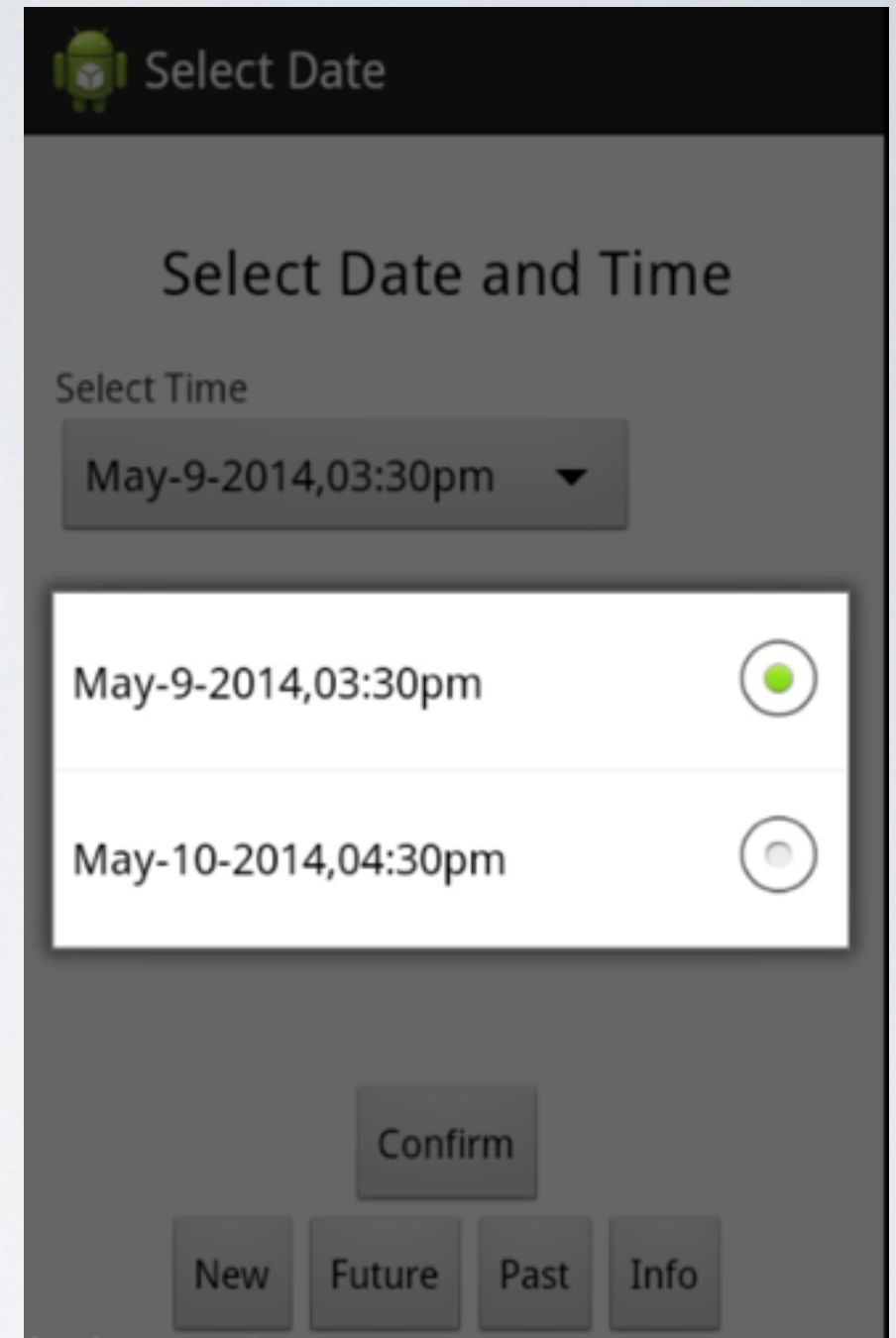
free for personal use

User can shake the device  
to change to next doctor

Patient  
Select Doctor

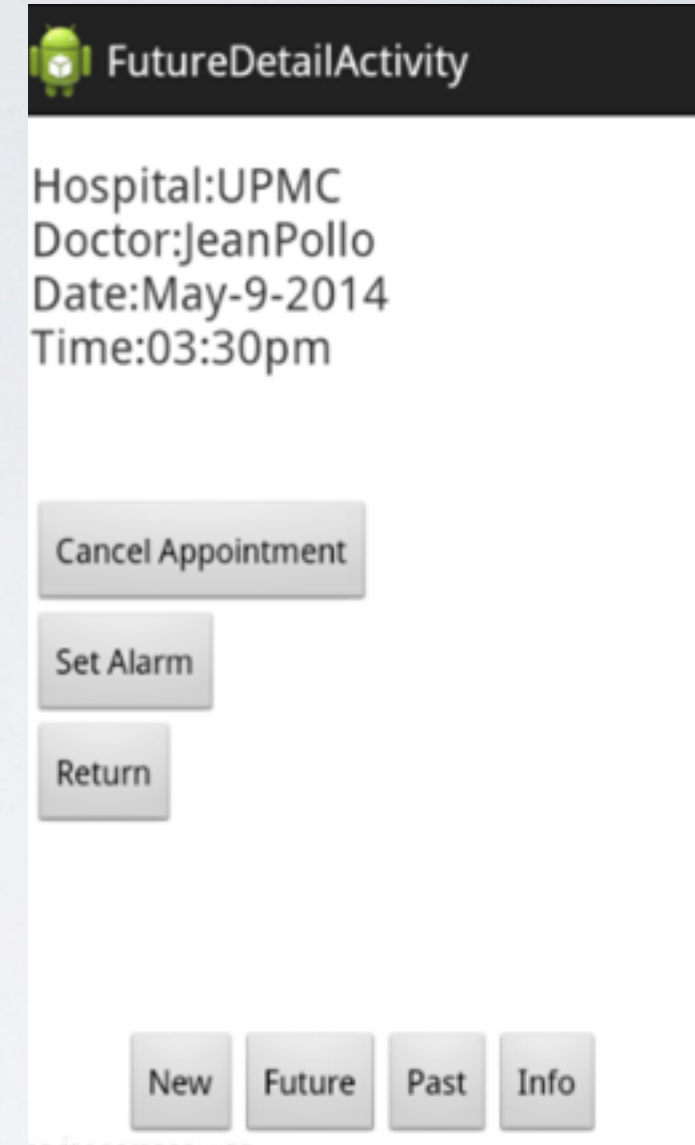
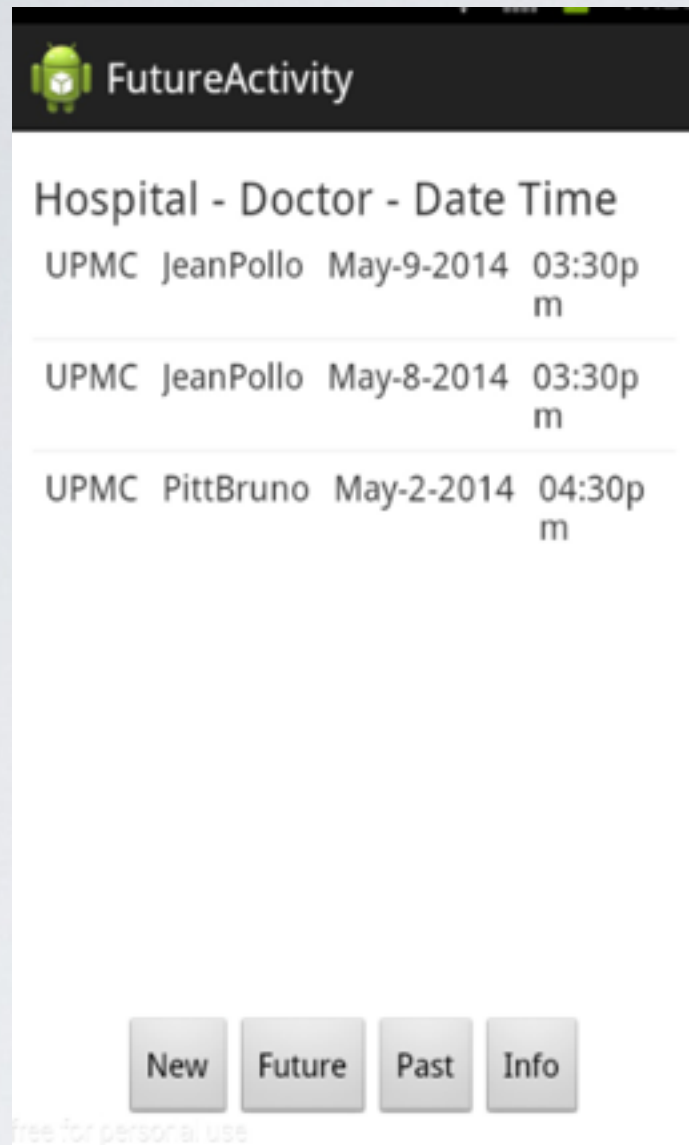


User can see a list of available appointments of the chosen doctor



The screenshot shows an Android application interface for selecting a date and time. At the top, there is a black header bar with a green Android robot icon and the text "Select Date". Below this, the main title "Select Date and Time" is displayed in a large, bold, black font. Underneath the title, the text "Select Time" is shown in a smaller font. A dropdown menu is open, displaying two options: "May-9-2014,03:30pm" and "May-10-2014,04:30pm". The first option is selected, indicated by a green dot in a circle to its right. Below the dropdown menu, there is a "Confirm" button. At the bottom of the screen, there are four buttons labeled "New", "Future", "Past", and "Info".

Patient  
Select Appointment



Patient  
Future Appointment

## Hospital - Doctor - Date Time

UPMC JeanPollo Apr-2-2013 03:30pm

UPMC JeanPollo May-8-2014 03:30p  
m

New

Future

Past

Info

free for personal use



## Past Appointment Detail

Hospital:UPMC

Doctor:JeanPollo

Date:May-9-2014

Time:03:30pm

Return

New


Future

Past


Info

free for personal use

Patient  
Past Appointment

 InfoActivity

### Personal Profile



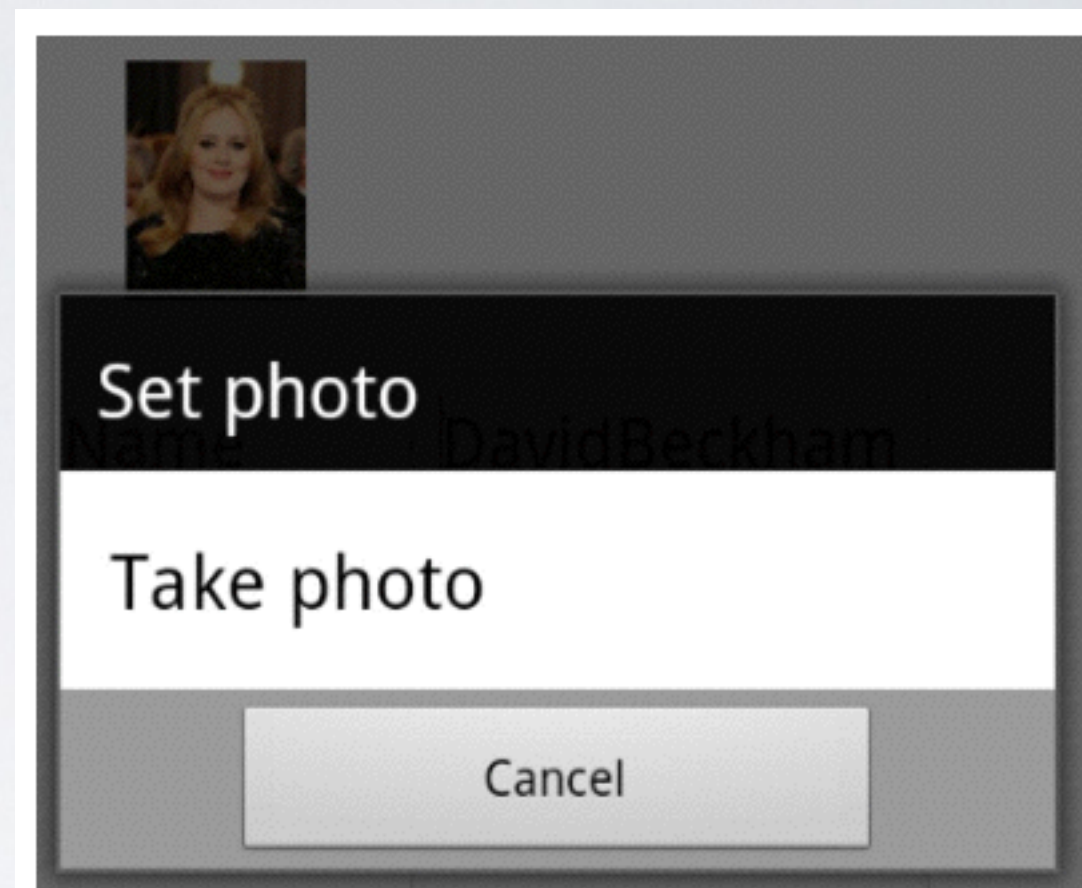
Name

Age

Sex(F/M/N)

Insurance

free for personal use



Patient  
Change Info



# FEATURES

- Hardware Audio
- System Alarm
- Camera
- Camera Autofocus
- Location
- GPS
- Network based Geo location
- Touchscreen
- Gestures
- Accelerometer Sensor

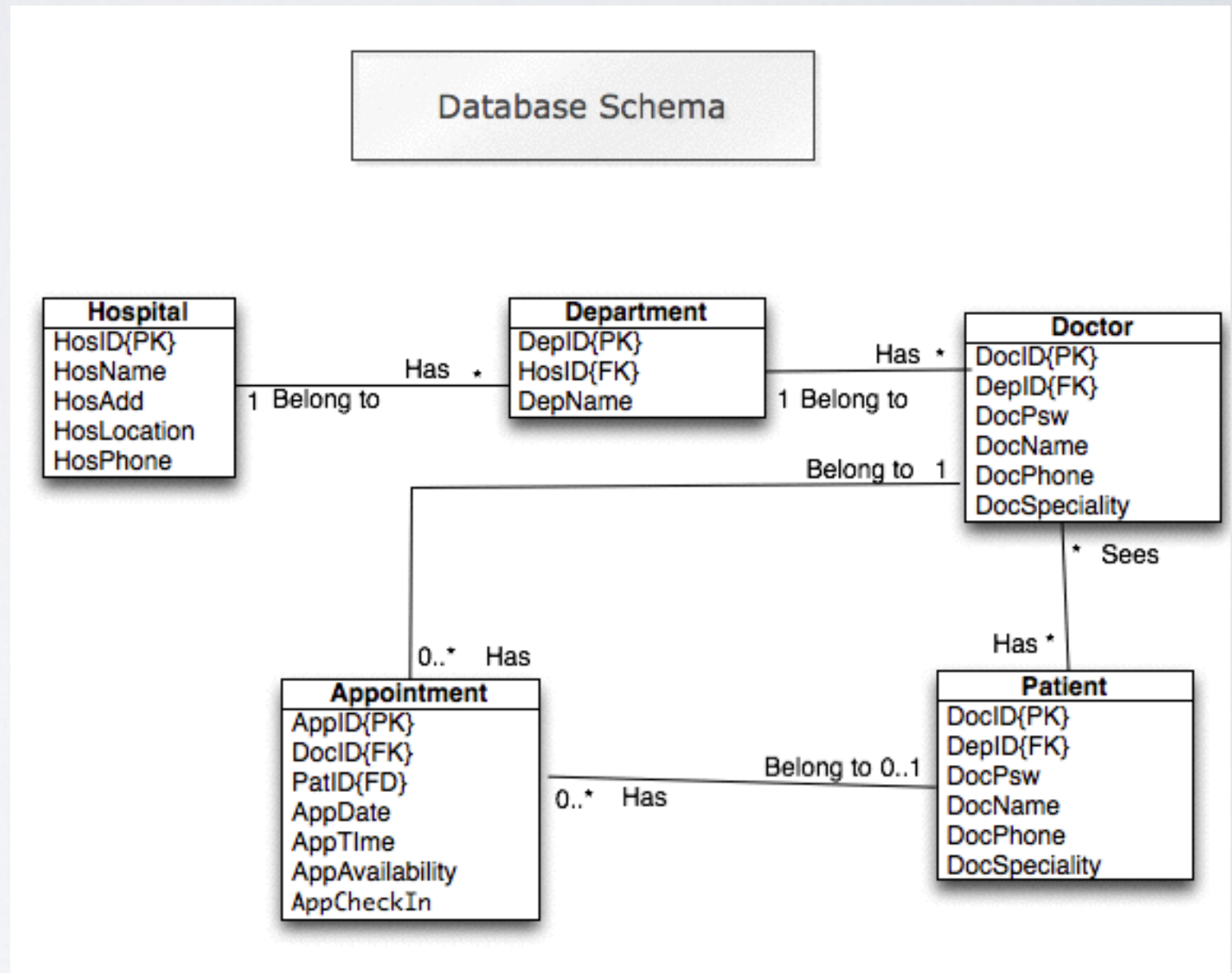
# DOCTOR JAVA APPLICATION

```
Welcome to the Appointment Scheduler System.  
Please choose an option you want to do: 1.Log In 2.Exit  
1  
Please Log in.  
Enter your Doc ID:  
jean@gmail.com  
Enter your password:  
test  
|-----  
You are Logged In!!  
Please Choose your option:  
1. Add an appointment.  
2. Check all appointment.  
3. Check in a patient.  
4. Delete an available appointment.  
5. Check info of an patient.  
6. Log out
```

# DATA SERVER

```
Main (3) [Java Application] /Library/Java/JavaVirtualMachines
Please input your database user name:
root
Please input your database password:
111111
```

Implemented with  
DBHelper for basic  
database methods



# SYSTEM DESIGN



# PRESENTATION TIME

- Patient Android app
- Doctor Java application

# APPLICATION TIRE

- Socket connection with the Data Server
- Sending/receiving data from the data server by using class entities.

# DATA TIRE

- MySQL Database
- DBHelper for basic SQL queries.
- Interfaces for each entities in the database using the DBHelper to implement specific functions.

LESSON LEARNED



# LESSON LEARNED

- Encapsulation
- Reusability
- Scalability
- Serialization
- Socket Communication
- MySQL Database
- Multi-Threading & Synchronization

DEMO