

HealConn APP Design

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Step1: Designing Screens

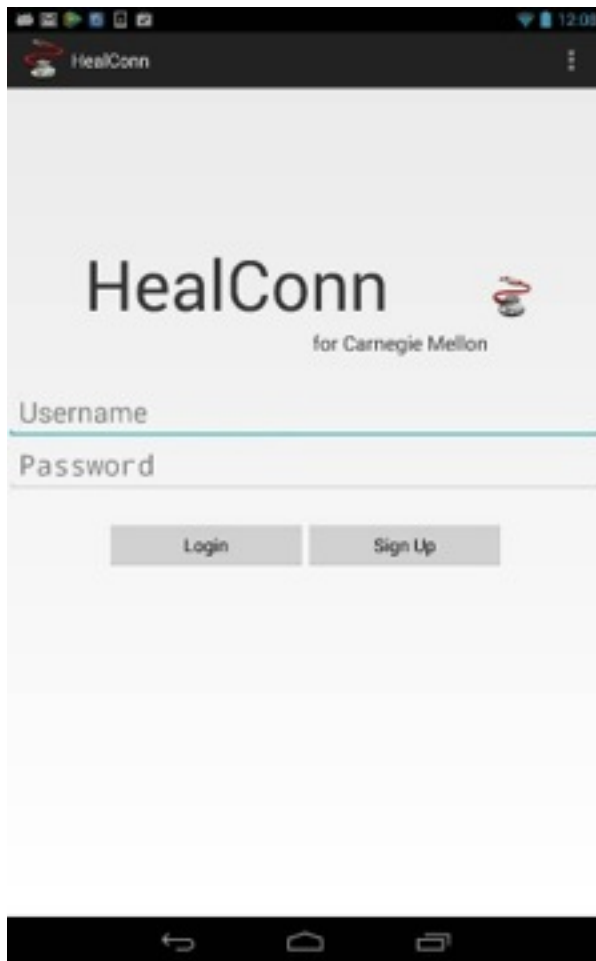
Supporting resolutions: large xhdpi(Nexus 7) / normal hdpi(Nexus s)

For large xhdpi(Nexus 7): use default layout folder

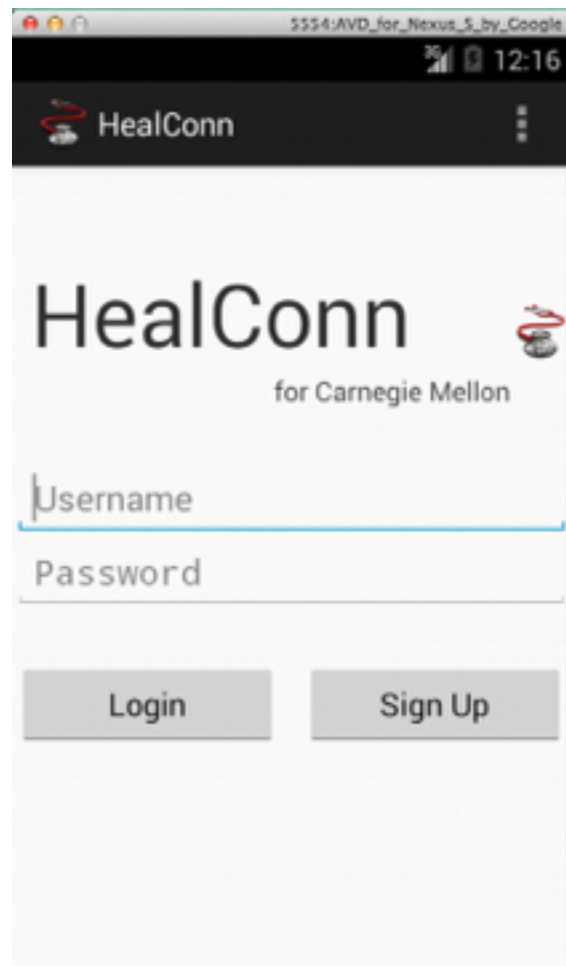
For normal hdpi(Nexus s): use layout-normal-hdpi folder

Screen shot(login page):

For Nexus 7:



For Nexus S:



Step2: Intents for each Activity

Intents for Login Screen:

When user clicks on the “Log In” button, an intent will be launched to start the home screen. This intent will carry the student’s profile information retrieved from the backend server.



Intents for Home Screen:

When user clicks on “Appointment” button, an intent will take the student to the “Schedule Appointment” screen, this intent carries the students’ profile information as well as the available appointment time retrieved from the backend server and displays the available time slots to the user.

When user clicks on “H-News” button, an intent will take the student to the “News” screen, this intent simply starts the activity.

When user clicks on “H-Messenger” button, an intent will take the student to the “Messenger” screen, this intent will also carry the user’s profile information to retrieve related message from the backend server.

When user clicks on “Forms” button, an intent carrying the student’s profile information will take the students to “Form Selection” screen.



Intents for Appointment Function:



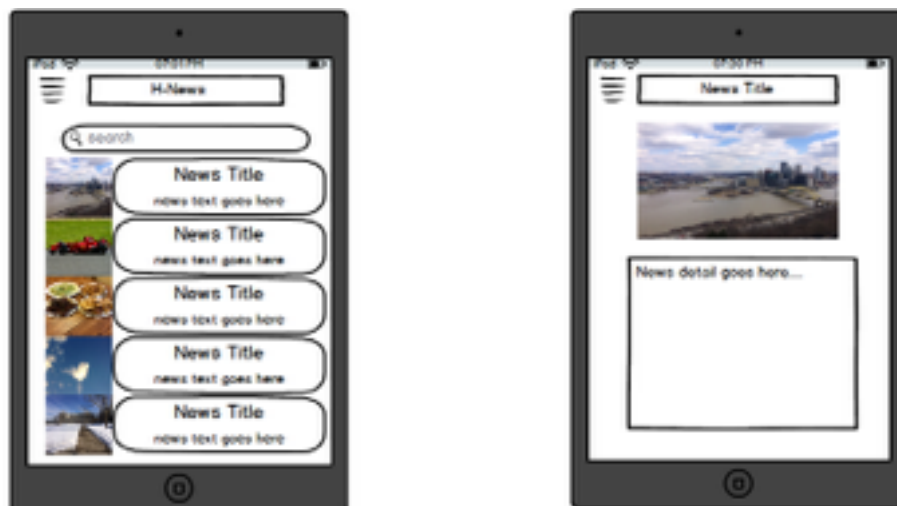
The “Next” Button will start intent and navigate user to complete appointment scheduling, in each stage, the intent to be launched will carry the user choice from the last stage of the scheduling. For example, after user chooses (10am - 11am), an intent carrying this information will start the next step, which is to give user a choice to fill out a “Pre-Appointment Survey” form.

When user confirms to fill out survey form, an intent will lead user to the form page, on “Submit”, a intent will lead user to the confirmation page.

When user chooses not to fill out survey form, he/she will be directly lead to the confirmation page.

Intents for News Function:

When user clicks on a specific news title, an intent will start another activity that displays the detail of the news.



Intents for Messenger Function:



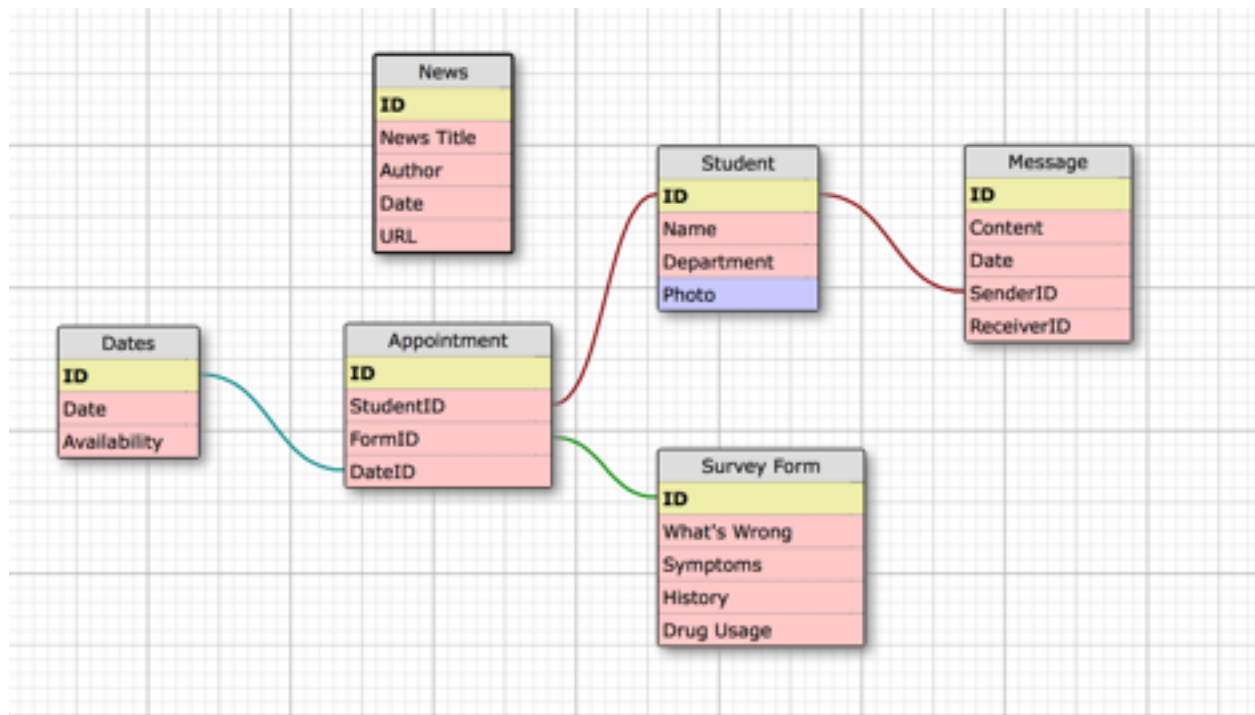
When user clicks on a specific message, an intent will lead user to a detailed message display. When user clicks on the “New Message” icon in the ActionBar, another intent will take user to the screen for composing a new message.

Intents for Form Function:



When user clicks on a form title like “Appointment Feedback Form”, an intent will take user to the corresponding screen for that form. After user finished filling the form and clicks on “Submit”, an intent will launch the confirmation screen.

Step3: DB Schema (Content Provider)



Step4: Application Tier Design (API for HealConn)

Class: Student

Instance variables: String name;
String department;
int id;
Picture photo;

Method: setter/getter for instance variables

Class: Appointment

Instance variables: Date date;
Bool isSurvey;
Student appointmentStudent;
SurveyForm surveyForm;

Method: 1. setter/getter for instance variables
2. Bool isSurvey()

Class: News

Instance variables: String title;
String subTitle;
Picture photo;
String url;

Method: setter/getter for instance variables

Class: NewsGroup

Instance variables: ArrayQueue<News> newsGroup;
Method: ArrayQueue<News> sortByTitle(String title)

Class: Message

Instance variables: String sender;
String receiver;
Date date;
String content;

Method: setter/getter for instance variables

Class: DatabaseHandler

Instance variables: SQLite database related information;
Table information;
Keys;

Method: CRUD methods for database

Class: HistoryForm

Instance variables: String: corresponding contents for this form
Method: setter/getter for instance variables

Class: ImmunizationForm

Instance variables: String: corresponding contents for this form

Method: setter/getter for instance variables

Class: FeedbackForm

Instance variables: String nurseOnDuty;

String rate;

String additionalComment

Method: setter/getter for instance variables

Class: SurveyForm

Instance variables: String whatIsWrong;

String symptom;

String history;

String drugUsing;

Method: setter/getter for instance variables

Step5: Integration Tier

Local Service

Service name: SQLite database

Remote Service

Service name: Google play service(Google Map);

Parse backend service;