Calendar Application on Android (AO4-13)

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Introduction

The smartphone with Android Operating System has become popular in recent years. There are many companies and individuals keen on developing applications (“apps”) in Android platform. At the same time, a great deal of users always looks for some new and multi-functional apps to fulfill their needs.

In view of this, a user-friendly Android schedule app, with attractive layout, financial helper and period counter was developed in this final year project.

Objective

Features in our app include the following:
♦ Attractive layout
♦ User login
♦ Calendar and Schedule
♦ Reminder for daily schedule
♦ Menstrual period counter
♦ Record daily expenses
♦ Estimation of monthly total expense
♦ Pie chart shows expense category
♦ Broken-line graph shows daily total expense
♦ Share information to social network and email
♦ Back-up function

Methodology

Knowledge Needed to Execute the Project
♦ Java programming language
♦ Eclipse with JDK and SDK
♦ Photoshop

Design Phase
♦ Decisions about Software
  Support AndroidOS 2.3 to 4.3.
♦ Decisions about Hardware
  Main testing device : Samsung Galaxy SII with AndroidOS 4.0.
♦ Architectural plan
  Sketching out the layout of every screen page would help us to develop our app in a systematical way and also allow us to pick up on the technical requirements.
♦ Algorithm design
  This is the way to solve any problems in an analytic way. It is important for us to have a clear picture of our app, which can help us to link up the sub-functions in a more effective way.
♦ Graphical user interface (GUI)
  An attractive and clear layout can make a good first impression with users and increase the chance of them deciding to use the app long-term.

Results

Login page
Schedule page
Period Counter page
Expense Record page
Setting page