
Spring 2012

CS4000: Individual Studies in Computer Science - Mobile Software Design and Development

The Independent Study we did under Dr. Sunho Lim at Texas Tech University over the spring 2012 was a great learning experience for us. We were very curious about the mobile programming and wanted to do some work on it. We approached Dr. Lim with this curiosity who proposed an idea of making a Voice enabled bulletin board. We liked his idea of bulletin board on mobile platform which would enable a great learning environment outside the classroom.

We started off by formulating the idea into class diagrams, use cases and sequence diagrams. The initial idea was to implement the application into all the major mobile operating systems like IOS, Android and Blackberry using the tools like Phonegap. But after doing enough research, we found out that these tools cannot dynamically create objects. So we decided to implement the idea on Android Operation System, which required Java coding. We had previous experience working Java so quickly started coding using Android APK in Eclipse IDE. Throughout the process of creating this application, we gained tremendous knowledge on mobile programming.

On the second week of April we had a chance to represent the Computer Science Department at the Undergraduate Research Conference through our application. We did a poster presentation about the process on making the application and also included some of the features of it. We were overwhelmed by the amount of entusisms the visitors showed on our work. We gained very valuable experience meeting all those people at the conference and were also very proud to be standing there, demonstrating our work on our cell phones to the visitors.

Overall we had a very great learning experience during this period of Independent studies with Dr. Lim. The knowledge we acquired and the experience we gained will certainly boost our academic performance.

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