Android Application Development: Architecture, Design and Implementation of Thai – Indonesia Electronic Dictionary Application
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Introduction

• Android, introduced by Google in November 2007.

• an embedded operating system, middleware, user-friendly, and application software for the integration of the mobile software stack.

• Design and development of Thai - Indonesia electronic dictionary.
Figure 1: Android Platform Architecture
Configure Development Environment

- The Java Development Kit (JDK)
- The latest Android SDK
- A compatible Java IDE is required
Thai – Indonesia Dictionary, Overview of the system

• **Main-Form:** shows the vocabularies in the database according to a certain sequence.

• **Display Men:** can make a judgment for function keys and can take some appropriate tests.

• **Making quick judgments:** for some special exceptions, and testing every function.

• **Restart of simulator:** in order to reset for exceptions.

• **Data input:** data input by hand.
Thai – Indonesia Dictionary, Architecture of System

- Retrieve Indonesia words through Indonesia dictionary database collection,

- “Query” and inputting the word that needed retrieved in the Main-Form.

- The term update module realizes the functions of addition and deletion Indonesia words.

- User can add or delete any word in the dictionary.

- The data input and output functions realized in the simulator can be operated by hand only at the present stage.
The simulator will load the default dictionary of system automatically at the beginning.

And then it will entry the main form and displays the words.

The number of words shown in the screen is adaptive to the size of screen.

User can select relevant modules to retrieve, add, modify, or delete words.
Thai – Indonesia Dictionary, Design of system

- Android platform will start the DDMS function automatically at the beginning, and changes the existing files of functional modules into image files.

- We realize the retrieval function through the locating operation of Android platform, which is one of basic functions of SDK.

- We directly use related function in program to realize the function about add or delete words.

- We use the delete function first and then add a new word to realize the modify function indirectly.
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