



3.2.2. Accessing JSIS from a Mobile Device ²

One of the significant features of Java Student Information System is that it can be accessed from the Mobile Device with as much simplicity as it is with Internet Browser.

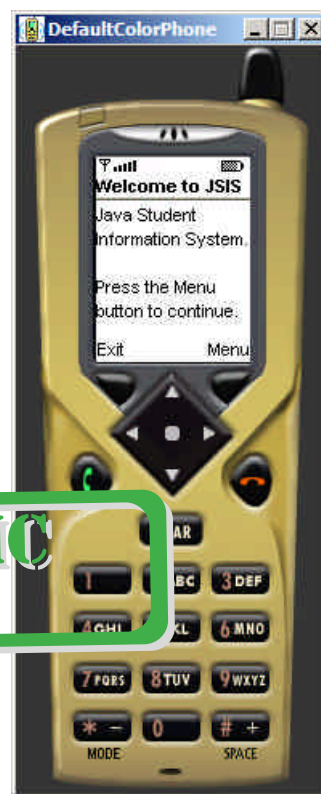
Figures displayed here are screenshots taken from Sun ONE Studio's (Mobile Edition) Mobile Phone Simulator. This simulator is also provided within J2ME Wireless Toolkit 1.4. ³



This screen is displayed when user opens JSIS MIDlet.

Here is user offered two options:

- 1) Whether to proceed with JSIS,
- 2) Or to view device properties; such as memory usage, MIDP version and etc



After user chooses to proceed with JSIS, this screen is displayed.

As you can see there is a "Menu" label in the right bottom side of the screen. This is the button which will lead to the screen shown in Figure 3.6.

Figure 3.4
Selection Screen

Figure 3.5
JSIS Main Screen

² Mobile device should support J2ME technology. A mobile device could be a cellular phone, PDA or any other device supporting Java. There are already many cellular phones giving support for J2ME. For J2ME-compliant devices and any related information, we recommend you to visit <http://wireless.java.sun.com/device/>

³ Because of limited time given for our project we couldn't perform test on a real mobile device. But we are for sure going to hold those tests sometime later.



Figure 3.6
JSIS Menu Screen

Here user is again given two options; Login – leads to login page, Help – contains the help related with Login issues

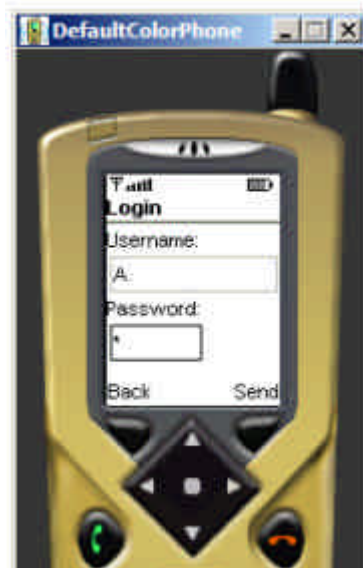


Figure 3.7
Login Screen

In the login page user is asked to fill in the “Username” and “Password” fields. After what, by pressing “Send”, information user entered will be sent to server for



Figure 3.8
User Authentication Error

Login error message (Alert with sound) will be displayed if user entered an invalid username or password.

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Figure 3.9
JSIS Select Task

After successful login user will see this page showing his/her name and further descriptions.

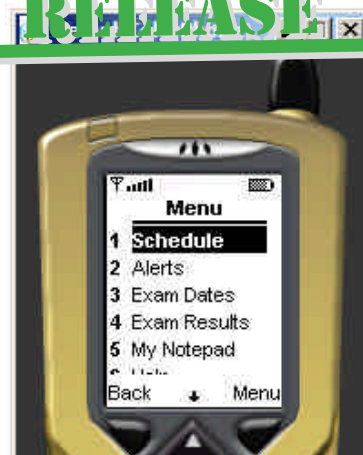


Figure 3.10
Choosing a Task

This screen is accessed from Welcome Screen. Here user is shown the tasks he/she can perform using JSIS.



Figure 3.11
Task Results

After choosing the right task from the Task Menu, results are shown in this way. (Just to show an example, we displayed here only results for “Schedule” task.)



Figures above, starting from Figure 3.4 through Figure 3.11, should give you the general idea of how JSIS mobile part works.

Of course, these are not all scenarios which can occur in mobile part of JSIS. There are also cases when mobile device cannot get connected to the server (accessing Servlet URL) and many other cases that are also handled in JSIS MIDlets. The scenarios above are common ones, that is why we have included them in this document and didn't include those which are related with service failure and Java exceptions.

Since JSIS uses J2ME technology that supports various devices, we decided to show here also the screenshots of other devices.



Figure 3.12. RIM Java Handheld

As you see this device doesn't have a "Menu" button which exists on cellular phones. Instead, it has a button on the right that facilitates as the "Menu" button.



Figure 3.12. Motorola i85s

Motorola i85s cellular phone displayed above doesn't have a colorful screen. It supports different tones of grey color.