

Application Development for Mobile and Ubiquitous Computing

Seminar Task Final Presentation

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Mobile "University Career Manager"

Our mobile application offers you the following features for managing university career:

Enroll for various lectures, such as exercise courses, seminars, practical courses etc.

Check your personal timetable showing all your lectures you are enrolled to.



How does it work:

1st Scenario:

User logs in for the first time:

- Logs in with university e-mail and password
- As there are no previous records is asked to enter Server URL
- Synchronization with database
- As there were no subjects student enrolled for so far, gets an emty list
- Possibility to add course
- List of available courses on given semester
- Adding the chosen course
- Display details of subject
- Option to remove subject student just enrolled to
- Logs out



Screen shots





How does it work:

2nd Scenario:

User logs in for the next time:

- Logs in with university e-mail and password
- Gets the list of courses he is applied for
- Is able to manage them having same passibillities as in 1st case
- ♣ When is done then its synchronize with the database
- Changes are applied
- Logs out

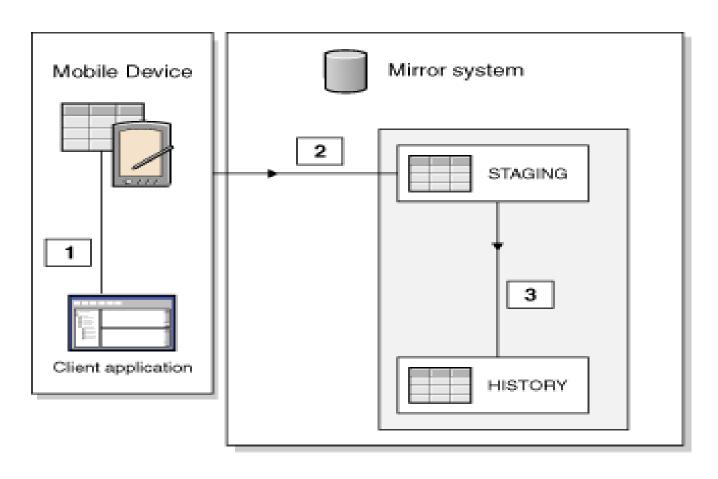






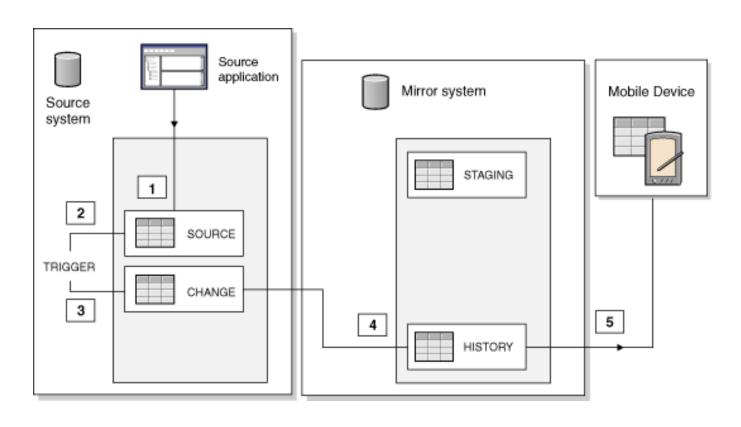


Data changes to the Client System





Data changes to the Source System





Adventeges:

- ability to manage through courses without constant connection to the Internet
- No need to warry about disconnections, due to short synchronization process
- Once you are able to connect, synchronize device with server to apply the changes
- Extends battery lifetime



Limitations:

- Different preinstall requeirements for different mobile devieces (Mobile Database)
- Server has to be up all the time



- Privacy:
 - only student is able to manage his timetable via his account
- Disconnections:
 - synchronization with other clients
- ♣ Synchronization (Client):
 - courses in offer (Add/Delete)
 - sign in for course -> takes one place from the list
 - sign out from the course ->returns one place to the list
 - when the list is full subject is not available
- Our challenges:
 - Know and better understand environment of .Net compact framework and IBM DB2
 - check its usability on mobile devices





- Mirror database concept
- Configuration
- .Net cooperation with DB2e



Thank you for your attention!