



Building a Web-based Test Registration System Using ASP and SQL

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VAMK retake system

- In Vaasa Polytechnic, retake registration was taken by paper work.
- Teachers had to create a registration form for his/her own retake and put it in a file folder in the library.
- Students had to check the file folder to find out what retake/test is pending and register to it.



Disadvantages

- Lack of coordination among teachers
- Paper waste
- Difficult to inform registered students if the test is rescheduled.
- Handwriting recognition work.
- Students have to come to library to register the form.

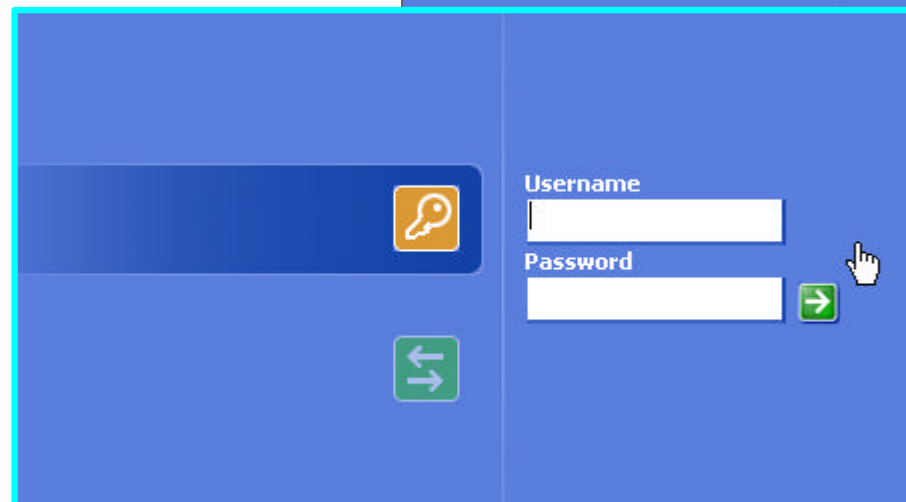
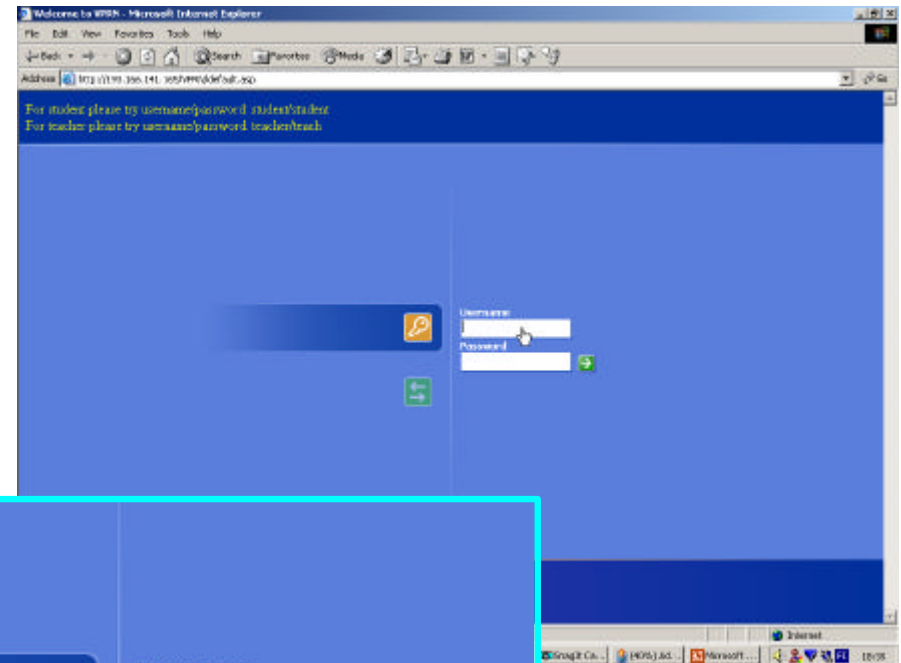


ASP Web-server and SQL

- ASP is abbreviation of Active Server Page
- A script language comes with Microsoft web server (IIS or PWS or ASP.net as latest declared).
- Specific tags that contain ASP scripts are embedded into a HTML formatted document for the server to interpret commands.
- ASP code is placed between `<%` and `%>` tags.
- ASP offers standard SQL commands to SQL database programs such as MS Access, SQL server, Oracle, etc.

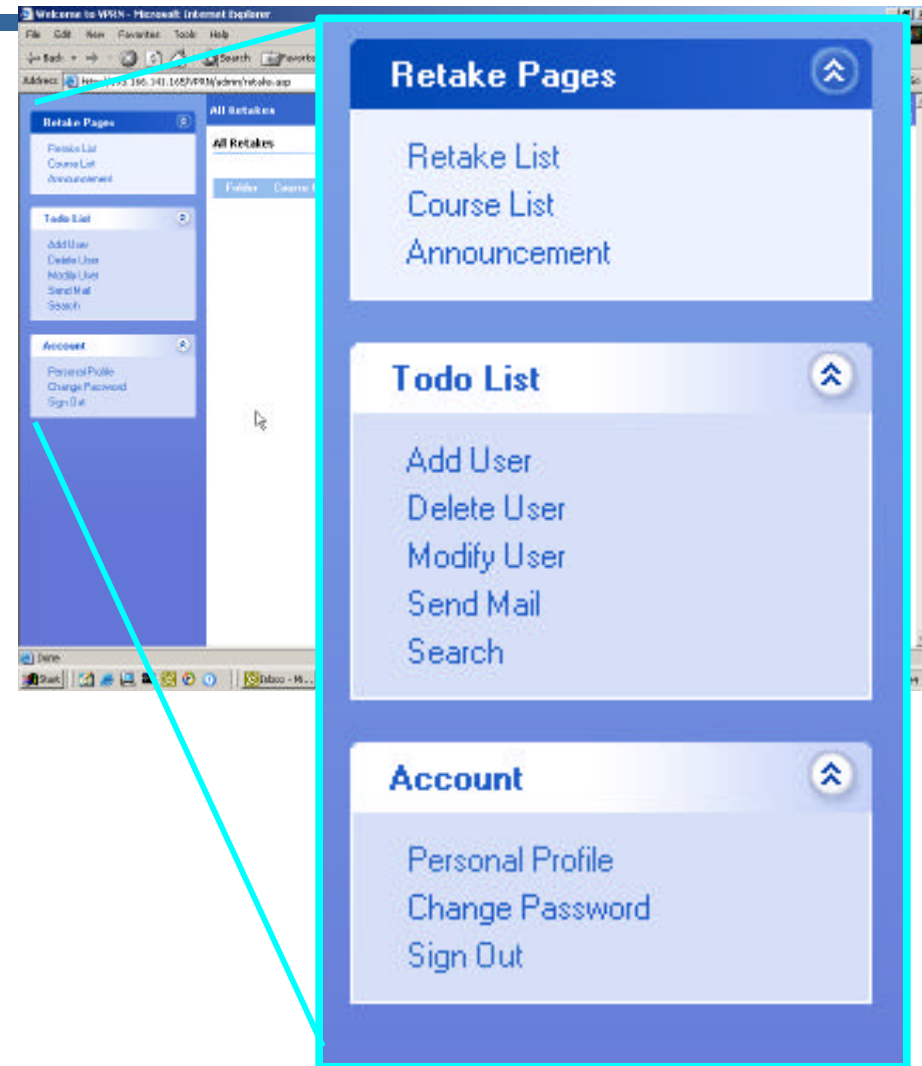
Web Page Design (1) - Login

- XP-based scheme
- Main Page (Login)
- Four types of users:
 - Administrator
 - Teacher
 - Student
 - Guest



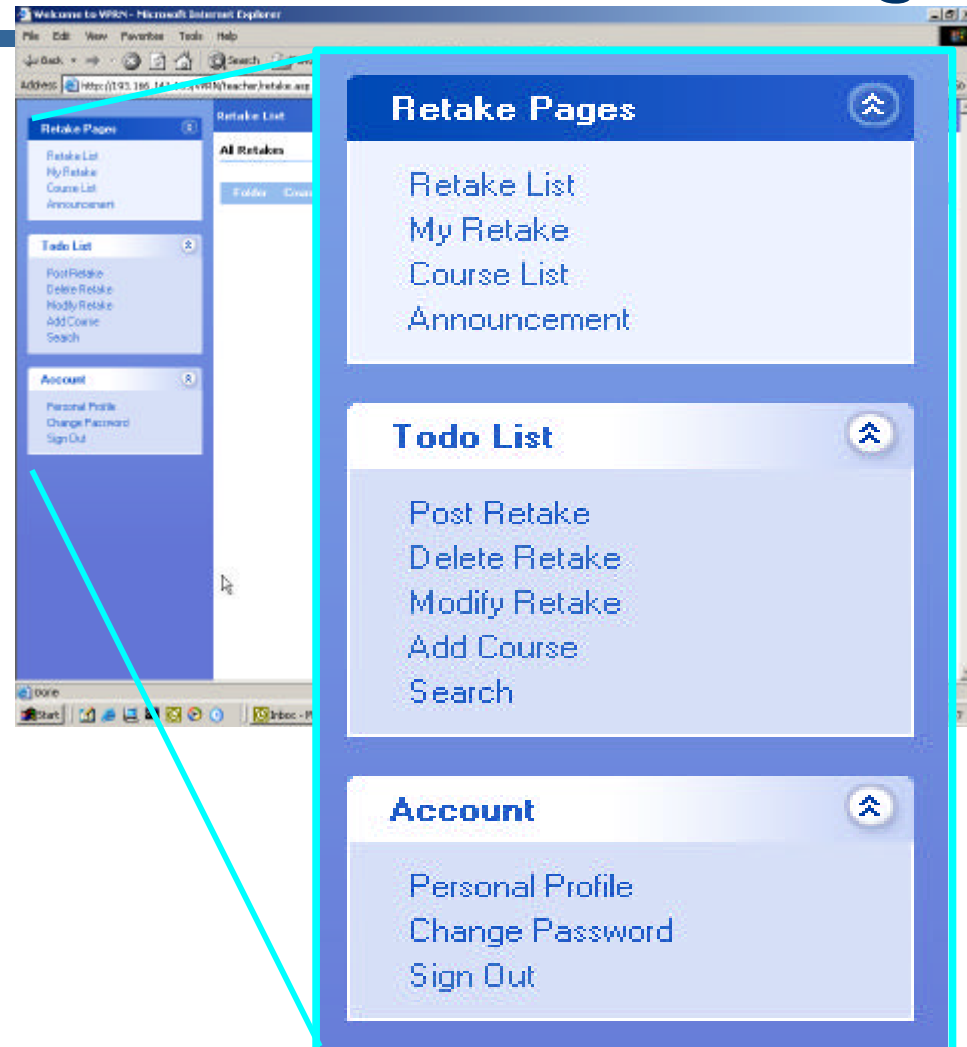
Web Page Design (2) – Administrator's Page

- In "Retake Pages", the administrator can modify/manage retake information, and send announcement to all the users.
- Administrator can add, delete, modify, and monitor other types of users. It can add another administrator, too.



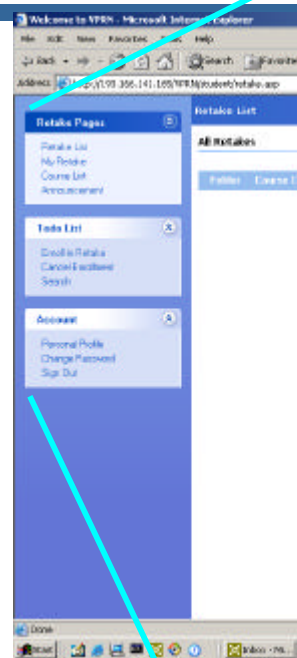
Web Page Design (3) – Teachers' Page

- A teacher can post a new retake, delete a retake of his own, modify a retake profile, or add a new course of him.



Web Page Design (4) – Students' Page

- A student can enroll to a retake, or cancel an enrolled retake.



Retake Pages

Retake List
My Retake
Course List
Announcement

Todo List

Enroll in Retake
Cancel Enrollment
Search

Account

Personal Profile
Change Password
Sign Out

Database Design

Table	Description
ut_class	Class code information
ut_course	Course information
ut_dep	Department information
ut_folder	Folders used in which different retakes are kept
ut_notice	Retake change information
ut_noticereg	Retake change associated registers
ut_register	Retake registers
ut_retake	Retake information
ut_room	Room details
ut_user	User information



Educational Purpose

- This project is given to students as a course project that covers 3 credit units.
- Students are divided in teams. A team consists of 2 members.
- Project is finished in 7 weeks (8 hours per week).
- Good start of professional internet-based programming.



Conclusion

- Simple but Useful.
- Can be extended to other web-based applications.
- Attractive to students.
- Suitable to be a course project.