Code Sharing

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- Motivation
- 2 Environments and Development Tools
- Code Sharing
- Modules of the Application

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Motivation

- Develop a desktop application implemented using Windows Forms technology.
- A Windows Form application is an Event-Driven application, supported by Microsoft's .NET Framework.
- The application will spend most of its time simply waiting for the user to interact with.



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Development Tools

- IDE: Visual Studio
- Database implementation: SQL Server/Service-based
 Database
- Design of the class diagram: StarUML







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Sharing Environments

- Each team member must always be aware of the application's development progress.
- Consequently, out team will use the following ways of communication:





Code Branches

- The code sharing environments gives the programmers the possibility of dividing their code into specific sections:
 - Frontend branch
 - Backend branch
- Use of Design Patterns and Clean Code Principles

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Front-end Module

- Front-end module: contains the elements which will determine the man-machine interaction
- Examples: Button, TextBox, MenuStrip, PictureBox etc.
- No. of forms: Login/Sign Up, Home Page, User Page, First Test, Second Test, Results (Interpretation), List of Universities
- Styling and design principles:
 - Visibility of system status
 - User control and freedom
 - Flexibility and efficiency of use
 - Aesthetic and minimalist design



Back-end Module

- Back-end module: handles the business logic as well as the data storage of the application
- Contains the database, which will consist of the following tables:
 - Users Table
 - Two tables, each with questions from the tests
 - Faculties Table
 - Results table



