

Project Description

Project **Online Components Repository**

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Steering group:

Frank Lüders

Gabriel Campeanu

Project group:

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Manvisha Kodali

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Filip Markovic

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1. Background and Objectives

This project is an assignment from our customer Frank Lüders, in the Component Technologies course at Mälardalens Högskola. The purpose of this project is to create an application that allows user and administrator to access and manipulate contents of components repository successively.

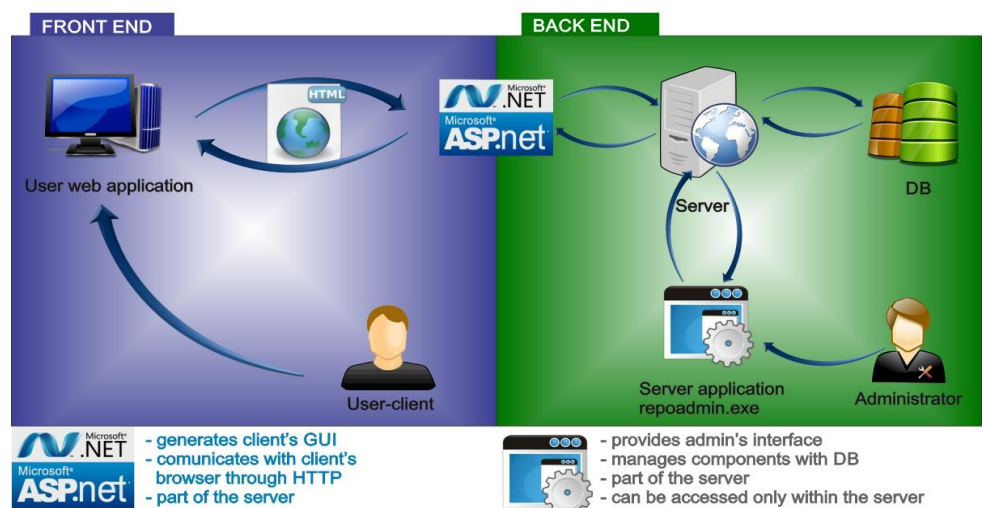
In the application the client should be able to browse a group of components from the three existing in the database, .Net, Java and Com components. Moreover, the client should also be able to select a component and inspect its interface and dependencies on the server, as well as to download it.

The administrator should use a desktop application to manipulate the contents of the database like adding, removing, and editing database entries.

The application is built using ASP.Net on Visual Studio 2010 and Winforms. It consists of several parts:

- 1- Client web application.
- 2- Server application.
- 3- Desktop application.
- 4- Database.

The client web application allows a user to browse and download the components from the repository. The server will execute requests from clients. It will be responsible for communication with the database and process the information. The desktop application is used by the administrator to access, modify, add and remove contents from the database.



For the development we planned to use the waterfall model, defined by different phases:

1. Requirement Specification: defining, analyzing and collecting system requirements
2. System Design: defining the system architecture
3. Program Design: identifying subsystems and modules of the systems.
4. Implementation: coding and implementing the system.
5. Testing and Debugging: testing the application and reporting bugs.
6. Maintenance: deploying and maintaining the application.

2. Organization

2.1 Project Manager

Trevor Jagerfield
Email: jagerfield@gmail.com

2.2 Project Group

Name	Period	Availability
Valerio Lucantonio	20-09-2014 to 09-11-2014	50%
Manvisha Kodali	20-09-2014 to 09-11-2014	50%
Filip Markovic	20-09-2014 to 09-11-2014	50%
Trevor Jagerfield	20-09-2014 to 09-11-2014	50%
Alexandre Le Borgne	20-09-2014 to 09-11-2014	50%
Tania Matamoros Santamaría	20-09-2014 to 09-11-2014	50%
Marc Terrasa Bonet	20-09-2014 to 09-11-2014	50%

2.3 Steering Group

Frank Lüders

Gabriel Campeanu

3. Assumptions and Constraints

Assumptions

- Every member of the group has a minimum knowledge about programming, at least in one basic language.
- Every member of the group has internet connection at home.
- Every member of the group understands the project entirely.
- Multiculturalism is going to be respected, even if the partner behavior is peculiar for our own culture.
- Tasks are finished before the deadline.
- Work will be split equitably among the members.
- Access to the different components needed for our database.

Constraints

- It is possible that not every member can assist to the meetings. Online meetings will arrange instead.
- Programming languages that are used in this project may be new for some people.
- Given the high number of participants in this project, the decision-making may take longer.
- We have a deadline.

4. Communication

A good relevance for group work is to share some tools to communicate with group members. We are planning to have a couple of meetings for a week with the steering group for the project discussion and plan. Moreover we have a couple of meetings between group members to discuss common problems and make an agreement to solve them. If someone is not available for the meeting we can use skype or viber to make a videoconference.

We are sharing all the materials online in a dropbox repository. For the documentation we are working on google docs, so anyone can access the document and modify it at the same time. We are also using the svn server of the group for sharing documents.

The language we are using is English. The progress will be tracked in a shared excel document.

5. Worked Hours

Each project member shall report worked hours. When the week ends each group member write down the time that he/she has dedicated to develop our project. This will be done through a shared excel document.

<https://docs.google.com/spreadsheets/d/1sPuLD8spMzJCP4JiftNvq0p8n5sDfQRVHvd2hUm0z8/edit?usp=sharing>

Member/Week	W38	W39	W40	W41	W42	W43	W44	W45	Total
Manvisha Kodali	6	11	12	12	12	12	10	5	80
Valerio Lucantonio	6	11	12	12	12	12	10	5	80
Trevor Jagerfield	6	11	12	12	12	12	10	5	80
Filip Markovic	6	11	12	12	12	12	10	5	80
Alexandre Le Borgne	6	11	12	12	12	12	10	5	80
Tania Matamoros Santamaría	6	11	12	12	12	12	10	5	80
Marc Terrasa Bonet	6	11	12	12	12	12	10	5	80

6. Project Plan**6.1 Time Schedule**

Id	Milestone Description	Responsible	Finished by	Rem
1	Project Description, initial version.	ALL	2014-09-24	
2	Project Description, final version.	ALL	2014-09-29	
3	Design Description, initial version.	ALL	2014-10-07	
4	Design Description, complete version; First executable prototype	ALL	2014-10-20	
5	Design Description, final version; Final executable prototype	ALL	2014-11-03	

6	Project Analysis Report	ALL	2014-11-06	
7	Peer Assessment	ALL	2014-11-09	

6.2 Financial Plan

Planned cost (100%) = 200,000 SEK.

Planned effort = 10 pw.

1 person-week (pw) = 20,000 SEK.

Activity	Volume (pw)	Cost (SEK)	Comments
Project management	0.8	16,000	In this phase we set the main characteristics of the project and its overview.
Requirement specification	1.1	22,000	We collect the requirements in order to satisfy our client and be able to finish the project on time.
System Design	1.1	22,000	We will get an easily understandable overview of the system, both for the client and for us.
Implementation	5	100,000	This is the longest phase in time, because is the main part in the development of a new application. We will focus our efforts here.
Testing	1,5	30,000	We will try all the different aspects of our app work correctly.
Maintenance	0.5	10,000	Deploying the final app, and supporting.
Total	10	200,000	

REVISION

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