**Project Plan**

**Authentication Server Subsystem for  
 Remote Authentication using Facial Recognition**

Revision History:

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| --- | --- | --- |
| Date | Author | Description |
| 2016-04-08 | Yang Dechuan | Draft for Project Plan |
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1. **Purpose and Audience**

**Purpose:**

The Naïve team will be responsible for the development of the authentication server of a face recognition application. And this project plan shows the readers the process of the development, including the schedule and the milestones. What’s more, we will describe the related technology and risks later.

**Audience:**

The other members of our team and the other collaborating teams that will work together to finishing the whole system.

1. **Project Background**

The Face Recognition Application (FRA) is generally used to recognize a person and provide relevant information related to that person. The server of the application will receive pictures or information (Name, Address, Phone) of the person in that picture from the users and contact face.com to do the facial training and recognition task, and then send corresponding information to the user. The server-side of the application will directly support the client-side not only by encapsulating the face.com interfaces to provide the users the face recognition functions, but also help store information of that person.

1. **Team Roles and Responsibilities**

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| **Role** | **Team members taking on the role** | **Artifacts for which the role is responsible** |
| Requirements Analyst (1) | Primary: Xie Yuanxiang   Backup: Wang Yanjie | [ConOps](https://www.assembla.com/wiki/show/cis422_template/ConOps),  Software Requirements |
| Architect (1) | Primary: Wang Yanjie  Backup: Yang Dechuan | Software Design documents including architectural views and module interface specifications |
| Developer (>1) | Xu Zhenhui  Song Zeliang  Xie Yuanxiang | Module implementation |
| Tester & Integrator (>1) | Su Jingbo | Test planning, Module tests, System generation and verification plan, test results report |
| Project Manager  (1) | Yang Dechuan | Communication, project plan, project measures, retrospective report |
| Configuration Control (build master) | Yang Dechuan | Configuration management policy (coordinate policy with team members, ensure build works). |

1. **Risks and Risk Mitigation**

There are several risks in the project plan that have to be assumed and possible mitigations for those. For each of the following risks, Naïve team must follow the indications to mitigate it.

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| RISK | MITIGATION |
| Different teams can misunderstand the product final description. | All the teams must agree on the functional description of the project to  be distributed, and we four teams have reached a consensus. |
| We measure the inaccurate work time. | Each member of the team must take  notes about how much time spends in  each task, and change the task status  when it corresponds. |
| First iteration too ambitious to finish on  time | First iteration as simple as possible, add  more features in the second one, when  the project plan will be reviewed, and  when the major part of the  documentation is done and the team  members have more time to implement  and test new features. |
| Manage change in the second iteration  to add more features is difficult | Develop the application in modules with  separate components, in the way that if  some module changes will not affect the  others. Use of abstract interfaces. |
| Specifying the modules and dividing the  work will take longer than expected | Help the architect with this task and  collaboration between different teams’  architects. |

1. **Process**

It will contain two iterations, the first for core functions and the second for improvements. During the first iteration, we will develop a web server which can achieve general function, including the sign in and sign up. And for the second iteration, we will take some optimization into consideration. For example, we will try to reduce response time and so on.

1. **Mechanisms, methods, techniques**

We aim to develop a web server which can provide register and signing up. For this plan, we choose JAVA as the program language and eclipse as the IDE. The midterm application will be debug in tomcat and we will upload the ultimate program to the server.

1. **Detailed schedule and milestones**

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| **Project Plan of Naïve of JLU** | | | |
| **Week** | **Contents** | **Person in charge** | **status** |
| DSD Week 1 | 1. Initialization of Assembla sites. 2. Collect team member’s information & roles definition. 3. Prepare Project Plan. | PM | Done |
| The first version of Requirements Analysis (RA) document. | Analyst | Done |
| DSD Week 2 | 1. Construct the development platform.  2. Learn to develop server program, including tomcat, java ee, etc.  3. Write a "Hello World" program. | Developer |  |
| Complete the first version of RA. | Analyst |  |
| First Architecture Specification (AS). | Architect |  |
| DSD Week 3 | Review the detailed RA | Analyst |  |
| Create and refined system design(SD). | Architect |  |
| DSD Week 4 | Make a detailed model development design(MD). | Architect |  |
| Begin the first iteration | Developer |  |
| Review the Project Plan | PM |  |
| DSD Week 5 | 1. Midterm progress evaluation  2. Prepare documents for the second All-Sites meeting with first artefact and documents for the first iteration  3. Second All-Sites meeting | ALL |  |
| DSD Week 6 | Deliver MD | PM |  |
| Refine RA. | Analyst |  |
| DSD Week 7 | Test and refine the first iteration. | Developer,  Tester |  |
| 1. Complete documents for the first iteration  2. Summarize the first iteration | PM |  |
| DSD Week 8 | Refine RA. | Analyst |  |
| Refine SD according to RA. | Architect |  |
| Begin the second iteration. | Developer |  |
| DSD Week 9 | Refine MD and detailed SD | Architect |  |
| Prepare the second integrated test (IT) | Tester |  |
| DSD Week 10 | 1. Complete necessary documents  2. Final project evaluation | PM |  |
| Final All-Sites meeting | ALL |  |

1. **Resources and Reference**

www.assembla.com