**Software Requirement Specification**

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Web Mail Application

Team Assent

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**1.0 Introduction**

* 1. Purpose

The main purpose of this document is to describe mail system application with all the features. It will explain the interface and system reaction of user actions.

1.2. Scope of the project

The main objective of this project is to develop a user-friendly system which sends, receive the email messages, documents images by attachments from one user to another. User location doesn't matter in this application. The project will develop user friendly application with high end security, which will allow sending of confidential documents.

1.3. Overview of document

The next chapter, the Overall description section, of this document gives an overviews of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter. The third chapter, Requirement specification section, of this document is written primarily for the developers and describes in technical terms the details of functionality of the product.

Both sections of the document describe the same software product in its entirety, but are intended for different audiences and use different languages.

**2.0. Overall description**

2.1. System Environment

With the current system the user have to know username and password to access the user account. The system maintains security by authenticating the authorized user. Every time users have to enter his security password to open the account. For creating the account user must fill the form given in the sign up page.

2.2. Functional requirement specification

*2.2.1. Use case 1 (accessing system*)

The system is accessed through the Internet from it's initial urL. It loads welcome page with tab where need to enter the email address name. Bellow is another tab with next. All that will be placed in the middle of the page with blue fonts. There also will placed "need help" link. Create account tab will be placed right under previous tab with bigger font. In the left page bottom will be placed links as follow: about,privacy , terms & conditions , help . The user will be also able to change the languages this tab will be on right page bottom.

*2.2.2. Use case 2 (entering existing account*)

Once the user enter valid mail account the system will load similar page with matching account picture of the user and a password tab. All other feature and interface remain the same as Use case 1. To keep account secure the system will need a password minimum 6 characters and need to have one number, caption letter and random symbol.

*2.2.3. Use case 3 (correct password*)

If the password is cored the system will allow to the user entering into the accounting. The system load a new page with welcoming tab on the operation left side of the page with the name and the picture of the user. The interface will show last ten inbox messages and on the left side on them will appear user options: compose, send, delete, sent, store, draft. The folders will be one bellow other.

*2.2.4 Use case 4 (incorrect password)*

If the user enter not valid password, the system needs to warn him that will have 3 more attempts, before locking the account for an hour. Tab with name Forgotten password will appear under password tab.

*2.2.5 Use case 5 (user choice is forgotten password)*

The system will reset the password sending SMS to the provided in registration form number of the user. After that the user will be allowed to enter the system with automatically generated password, sent via the SMS.

**3.0 Technical Requirement Specification**

3.1 Server side

*3.1.1Server side hardware*

Note that specified HDD space is EXCLUDING space allocated to users for mailbox and storage.  
Eg. 40GB for installation and logs, plus (1000 users x 1GB storage) = 1040GB minimum.

Recommended: Dual Core Processor 8GB RAM 100GB HDD  
  
Minimum: Dual Core Processor 2GB RAM 40GB HDD

*3.1.1Server side software*

##### Operating System

* Ubuntu 12 and 14 only
* Redhat Enterprise 6 only
* CentOS 6 only

##### MySQL Server

Required for Atmail SQL database data. Packages can be downloaded from the MySQL site ([http://www.mysql.com](http://www.mysql.com/)). It is recommended that you have the following installed:

* MySQL-server
* MySQL-devel
* MySQL-client

3.2 Customer side

*3.2.2 Customer hardware*

Since the application must run over the internet, all the hardware shall require to connect internet will be hardware interface for the system. As for e.g. Modem, WAN – LAN, Ethernet Cross-Cable.

*3.2.2 Customer software*

Operating system – Windows XP (or higher) , Linux , OS

Web browser - Internet Explorer, Mozilla, Safari, Opera

**4.0 Test cases**

In order to be sure about functionality and reliability of the system we plan to run test case scenarios. Here they will be present briefly, each one of them will be present in details on separate document.

4.1 Test case login Gmail Empty Email

4.2 Test case login Gmail invalid Password

4.3 Test case login Gmail Upper Email and Password

4.4 Test case valid Gmail Login