Business Requirements Document

[BRD]

**Assignment Tracker**

Deerwalk Institute of Technology

Version 0.1

*Sameer Koirala***Table of Contents**

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# Version and Approvals

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| --- | --- | --- | --- |
| **Version History** | | | |
| **Version #** | **Date** | **Revised By** | **Reason for Change** |
| **1.0** |  |  | **Sameer Koirala “First version”** |
|  |  |  |  |
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|  |  |  |  |

This document has been approved as the official Business Requirements Document for Assignment Tracker - The Assignment Tracker, mentioned as AT hereafter, and accurately reflects the current understanding of business requirements. After approval of this document, requirement changes will be governed by the project’s change management process, including impact analysis, appropriate reviews and approvals.

|  |  |  |  |
| --- | --- | --- | --- |
| **Document Approvals** | | | |
| **Approver Name** | **Project Role** | **Signature/Electronic Approval** | **Date** |
| **Hitesh Karki** | **Director of Academic Affair** |  |  |
|  |  |  |  |

# Glossary of Terms

| **Term/Acronym** | **Definition** |
| --- | --- |
| TMF | Assignment Tracker |
| DWIT | Deerwalk Institute Of Technology |

Project Details

|  |  |
| --- | --- |
| **Project Name** | Assignment Tracker - AT |
| **Project Type** | **NEW INITIATTIVE** |
| **Project Start Date** | 06/24/2014 |
| **Project End Date** |  |
| **Project Sponsor** | Deerwalk Institute of Technology |

Executive Summary

All courses that students study will have assignments which need to be finished by a certain deadline. It is difficult for students to keep track of all the assignments of different subjects which are updated daily.

The Assignment Tracker will help students obtain information about assignments of various subjects. The AT will prioritize the assignments according to date and time remaining so that students can view assignments to do and their deadlines. This single resource will help students solve problems like forgetting about assignments and missing deadlines. A notification system will remind students of approaching deadlines. Overall, the AT it will help students keep track of the assignments and view the overall status of assignments from start to end of a semester.

Document Resources

| **Name** | **Business Unit** | **Role** |
| --- | --- | --- |
| Students | Students of DWIT | The end user who can view assignment list and keep track of assignments |
| Authorized Students | Class Representatives from each section of all batches | The assignment updater who updates assignments of various subjects daily |
| Administration | Key members of the college administration | The administrative officer who updates courses and subjects in the system |

Vision and Scope

## 4.1 Project Overview and Background

Background

When there are multiple assignments due, students tend to forget about assignments and miss deadlines. It is difficult to keep track of all the assignments that are given to students. Currently, assignments are uploaded in the school site or emailed to students in college mail. Students have to regularly check the school site and mail for assignments. Also, assignments like reading, preparing lab sheets and solving short questions are not uploaded in the school site or mailed to students. This problem can be solved using non IT techniques like diary keeping, but each and every student has to keep updating these records daily. Sometimes, assignment records can get overlapped or lost. Students who find it challenging to keep track of assignments can contact class representatives, but they may not always be available.

Business Opportunity

There is always an assignment given to students studying in DWIT. Therefore there is a great deal of opportunity to sell this product as well as minimize the time spent to obtain information about assignments. Moreover the number of assignments will keep on increasing over a period of time and notification about approaching deadline will be a great help.

Students of DWIT will immediately benefit from the creation of Application Tracker because it will save time to keep track of assignments. Beyond the immediate benefit to DWIT, AT has a business opportunity for students of other colleges in Nepal. Almost all of the colleges will give assignments to their students. The business opportunity will first focus on the Bachelors level but can ultimately span high school to university.

Market research may identify outside customers who may benefit from this software solution.

Customer Needs

There is great need for this software. Students need a centralized service to keep track of the assignments they have done and need to be done. Notification system will assist students to remember the assignments and their approaching deadline. This software will help them to prioritize assignments and plan time for assignment accordingly.

## Scope of Initial Release and Future Releases

|  |  |  |
| --- | --- | --- |
| **Feature** | **Initial Release** | **Future Releases** |
| Configure the system | Admin |  |
| Login/Logout | Admin / Students |  |
| Update courses |  | Admin |
| Upload assignments | Authorized Students |  |
| View assignments | Students | Students(Subject wise) |
| Notification/Reminder |  | Students |
| Assignment Status |  | Students (check list) |

### 4.2.1 Limitations and Exclusions

|  |  |
| --- | --- |
| Limitations | Exclusions |
| Only authorized students can update assignments | No Mobile Versions in this initial release. |
| Assignments have to be updated manually on daily basis. | No auto Notification/Reminder |
| Only subjects of BSCCSIT courses will be available | This release will only focus on Windows 7 and Windows 8 operating system |

## 4.3 Project Dependencies

* This project cannot proceed without an APPROVAL from the college administration to carry on with the project.
* The AT should be able to make use of the standard schema so that it can be made easily pluggable.
* User accounts must use the Google Apps Authentication service which is the DWIT standard. (Email address and Google Apps Password)

## 4.4 Stakeholders and their Profiles

The following comprises the internal and external stakeholders whose requirements are represented by this document:

|  | Stakeholder | Major Value | Major Interests |
| --- | --- | --- | --- |
| 1. | Students | Get information about assignments. | Saves a lot of time and also enables them to prioritize assignments. |
| 2. | Class representatives (Authorized Users) | Updates assignments daily | Saves effort of record keeping and informing all the students about assignments daily. |

## 4.5 Project Timeline

|  | **Phase** | **Timeline** |
| --- | --- | --- |
| 1. | Write the Software Requirements Specification | 12/15/2014 |
| 2. | Develop initial phase | TBD |
| 3. | Write BRD and SRS for future releases | TBD |

Key Assumptions and Constraints

## 5.1 User Load

We anticipate that all DWIT students will login to the system. The maximum number of student users is 192 and 1 system admin totaling 193 total users.

## 5.2 Key Assumptions and Constraints

|  |  |
| --- | --- |
| **#** | **Assumptions** |
| 1 | All of the students will have access to this system 24x7x365. |
| 2 | All the stakeholders will be comfortable using desktop application. |
| 3 | All students will be able to use it. |
| 4 | Assignments will be updated daily. |
| 5 | Subjects of each semester will be updated before each semester starts. |
|  |  |
| **#** | **Constraints** |
| 1 | This is not a fully dependable system that provides end to end solution as validity of assignments solely depends on class representatives |
| 2 | Since its desktop application, one cannot expect to work perfectly in all operating system. |
| 3 | This software will need to operate with other college systems. However, we are not yet proposing an integration effort other than Google Apps Authentication Service. Future releases will involve this integration. |
|  |  |

## 5.3 Major Features

|  |  |  |
| --- | --- | --- |
| **Feature Code** | **Use Case ID** | **Feature description** |
| FE – 1 | UC – 1 | CREATE USER CREDENTIALS |
| FE – 2 | UC – 2 | VIEW AND UPLOAD ASSIGNMENTS |
| FE – 3 | UC – 3 | VIEW ASSIGNMENTS |

Use Cases

## Use Case Narrative

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | UC -1 | | |
| Use Case Name: | USER CONFIGURATION | | |
| Created By: | Sameer Koirala | Last Updated By: | Sameer Koirala |
| Date Created: | 06/25/2014 | Date Last Updated: | 06/25/2014 |

|  |  |
| --- | --- |
| Actors: | ADMIN |
| Description: | CREATE USER CREDENTAILS TO LOGIN TO THE SYSTEM |
| Preconditions: | Connected to internet and assignment tracker application opened |
| Postconditions: | User logins to the AT Application |
| Normal Course: | 1. Receives welcome message 2. Login to the system. 3. Create credential of all of the users. 4. Logout of the system. |
| Alternative Courses: | Sees an error message based on password mismatch or non-existence of the user |
| Exceptions: | NONE |
| Includes: |  |
| Priority: | HIGH |
| Frequency of Use: | Once before start of new semester |
| Business Rules |  |
| Special Requirements: | * 24/7 access * Supported by windows 7 and 8 operating system |
| Assumptions: | Supported by only two operating system |
| Notes and Issues: |  |
| Use Case Graphics |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | UC - 2 | | |
| Use Case Name: | UPLOAD ASSIGNMENTS | | |
| Created By: | Sameer Koirala | Last Updated By: | Sameer Koirala |
| Date Created: | 06/25/2014 | Date Last Updated: | 06/25/2014 |

|  |  |
| --- | --- |
| Actors: | AUTHORIZED STUDENT |
| Description: | View and uploads assignment of the current semester daily |
| Preconditions: | Connected to internet and assignment tracker application opened |
| Postconditions: | User logins to the AT Application |
| Normal Course:  NORMAL USER | 1. Receives welcome message 2. Login to the system. 3. Upload assignments of the day. 4. View assignments. 5. Logout of the system. |
| Alternative Courses: | Sees an error message based on password mismatch or non-existence of the user. |
| Exceptions: | None |
| Priority: | High |
| Frequency of Use: | Once per visit. |
| Business Rules | TBD… |
| Special Requirements: | * 24/7 access * Supported by windows 7 and 8 operating system |
| Assumptions: | Supported by only two operating systems |
| Notes and Issues: |  |
| Use Case Graphic |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case ID: | UC - 3 | | |
| Use Case Name: | VIEW ASSIGNMENTS | | |
| Created By: | Sameer Koirala | Last Updated By: | Sameer Koirala |
| Date Created: | 06/25/2014 | Date Last Updated: | 06/25/2014 |

|  |  |
| --- | --- |
| Actors: | STUDENT |
| Description: | View assignment of all subjects of the current semester |
| Preconditions: | Connected to internet and assignment tracker application opened |
| Postconditions: | User logins to the AT Application |
| Normal Course:  NORMAL USER | 1. Receives welcome message 2. Login to the system. 3. View assignments. 4. Logout of the system. |
| Alternative Courses: | Sees an error message based on password mismatch or non-existence of the user. |
| Exceptions: | None |
| Priority: | High |
| Frequency of Use: | Once per visit. |
| Business Rules | TBD… |
| Special Requirements: | * 24/7 access * Supported by windows 7 and 8 operating system |
| Assumptions: | Supported by only two operating system |
| Notes and Issues: |  |
| Use Case Graphic |  |