

**Title**: The Hive - Software Requirements Specification

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The Hive

Software Requirements Specification

Revision History

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# Introduction

## Purpose

The product is a social network program that tracks user events and provides reports for all accounts/groups and will be able to generate updates and comment threads. This is in effort to make the project communication process more streamlined, easier for the user, to decrease the labor and make the project more eco friendly.

## Product Scope

The benefits of the system would include increased productivity, would create a localized place of discussions and file uploads as well as require less man hours to operate. The objective is to reduce the time it takes to find a suitable third party solution to fit the teams need for communication and file sharing.

## Intended Audience and Reading Suggestions

The intended product is intended for users with basic operations of a computer.

This document is the overview, characteristics, functional and non-functional Requirements of the system, implementation of system, the user interface, hardware and software interfaces and performance.

## Definitions, Acronyms, and Abbreviations

|  |  |
| --- | --- |
| Term | Definition |
| DBSM | Data Base System Management |
| U.I | User interface |
| Accounts | A record of people or events |
| Groups | Are selected people from a class to work on a project |
| Discussion board | A web page devoted to open conversation related to one topic |
| Thread | Is a way of breaking down the topics into more specific boards |
| Version control | A program that tracks the different versions of a file. |

## References

N/A

1. Overall Description

## Product Functionally

Major functions:

* Login for the users
  + Allows the user to access their account on The Hive website.
* Entering of data
  + Data entered in ranges from personal information to project data and files.
* Data entry into accounts
  + A form of data entry on the personal profile
* Form Groups
  + The forming of groups is the basic function that allows people to work on projects and share data and files.
* Create discussion boards
  + The allows thoughts and ideas on projects related topics
* upload files
  + The sharing of project files
* download files
  + The sharing of project files
* version control
  + The sharing of project files while tracking the updated files
* Update dashboard
  + Sends messages to members in a group of updates
* Dashboard
  + Gives User's a basic navigation on The Hive website

## Users and Characteristics

There are three main actors in this system

1. The user
2. The version control program
3. The DBSM

## Operating Environment

The system will operate on a web-based site that includes a Database. This system is built to run on PC architecture and has the capability to run on Windows and Linux. The print function uses Adobe file format to print reports. The languages used to build the system are TomCat, HTML, SQL and CSS.

## Design and Implementation Constraints

The issues that will limit the project are the learning of a new language, time constraints and the customer adding requirements during the development cycle to properly build the system.

## User Documentation

The Hive user manual is included in the web application itself under the F.A.Q page.

# Specific Requirements

1. The system shall track all project group progress in real time. System data needing to be tracked are: files, time stamps, boards, and threads in the boards.

2. System shall track all project members in real time. System data required are member status (active, waiting, not present), name of member, age of member, member statistics (skills, time available).

3. The system shall have security access for all project members on initial home screen (username, password). Security access will also be used to identify what data to allow user access too.

4. The system shall update any change needed to any group including group type, group participants, member assigned to group, group schedule time. As participants are added or subtracted while updating group the system shall adjust pledge amount associated with particular group accordingly.

5. The system shall add or delete any member to or from any group. As member are added or deleted between each group during the update, the system shall update work hours and group type accordingly.

6. The system shall add or delete members to and from groups. As members are added or deleted to and from each group, the system shall update member data, specifically group type accordingly.

7. The system shall submit product order request for any particular product selected.

8. The system shall submit work order request for any specific task selected.

9. The system shall display real time reports such as member capacity, group status, group capacity, member status, project schedule, group schedule, project the threads log, member’s schedule, and project member working schedule on project unit.

10. The system shall enable project manager unit to request work order and product order requests.

11. The system shall allow project manager’s unit to add or delete members, groups, and project member to or from any data category.

12. The system shall allow project manager’s to sequentially schedule projects and groups.

13. The system shall display all reports on project manager’s unit.

14. The system shall display status of group, members, and project member on project manager page.

15. The system shall display all project day member data, group data for the project day and member data on group manager’s page.

16. The system shall enable group managers to add or delete members to and from groups.

17. The system shall display members, current group, and group type and group schedule.

18. The system shall display group schedule and member data.

19. The system shall send a group schedule change request to project managers.

## External Interface Requirements

There are no external interface requirements.

## User Interfaces

The UI will have a log in screen, home page, Posting, validating posts, flagged accounts and users, creating accounts, print preview page, adjustments to accounts, and error pages.

More interfaces will be implemented in the SDS, but layout will be as follows:

user name:

Password:

Login

**Login Page**

Figure 2 – User Interface Layout

## Hardware Interfaces

This program is intended to work with a display, text input (keyboard), pointer/mouse, scanner, and printer.

## Software Interfaces

USERS

The Hive

DATABASE

Figure 3 – The Hive Interaction with Database

This System has connections with the operating system Linux or Windows through Web based protocols. The system also uses a Database to store information that is required for the system. The languages:Php, HTML, SQL and CSS will have access to their respected libraries. The last component connection is Adobe file formats to serve as printing functions.

## Functional Requirements

Functional requirements capture the intended behavior of the system. This behavior may be expressed as services; tasks or functions the system is required to perform where specified general functional requirements.

1. The system must have Security
2. Only admin must be able to create Groups
3. Only admin must be able to create user accounts
4. The system must be able to support different types of Users
5. All users must have the ability to enter data
6. All users must have the ability to create discussion threads
7. The discussion threads must be collapsible
8. The discussion threads must be expandable
9. All users must have the ability to download files from the group
10. All users must have the ability to upload files to their group
11. There must not be any duplicate accounts
12. The time stamp must show when the account was created
13. The time stamp must show when the last transaction/event
14. The Version control must log the user
15. The Version control must record the data before modification
16. The Version control must record the data after the modification
17. The system must be able to generate account reports
18. The system must be able to delete an account once an account is

created

1. An account can be made inactive
2. The program must have a dash board
3. The program must have an update window
4. An account can be made active

# Non-functional Requirements

1. The system must have password protection
   1. Must have limited attempts
   2. Must have password length and charter requirements
2. The system must have USER Accounts
3. The admin must have access to all parts of the system
4. The system must be able to support 1-n number of user
5. There must be one type of data entry user.
   1. One type of user must be able to enter data and post
6. The system must have Groups
   1. The system must have an upload file
      1. The system must have Version Control
   2. The system must have an download file
7. The system must have a numbering system for all accounts
   1. Accounts must have an appropriate name
   2. The system must have a Version Control Log
8. The account must have a time stamp
9. The system must have a Version Control Log
   1. Version Control Log must have a time stamp for all modifications

## Performance Requirements

These are performance requirements for the product under various circumstances.

There is not enough data to provide accurate performance requirements.