**PROJECT ANALYSIS**

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Revision 1.1

CMSC 495-7981

**Revision History**

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| **Revision Number** | **Date** | **Description** | **Name(s)** |
| 1.0 | 4/9/20 | Initial document created. Project Specification added, Schedule Created, Software Management added. | Zeeshan Abbasi |
| 1.1 | 4/9/20 | System Specification added. Revision table created. | Zeeshan Abbasi |
| 1.2 | 5/4/20 | Updated the requirements | Zeeshan Abbasi |
| 1.3 | 5/4/20 | Updated the input and output data | Zeeshan Abbasi |
| 1.4 | 5/4/20 | Updated the context diagram, subsystem diagram, Possible risks and risk mitigation | Zeeshan Abbasi |
| 1.5 | 5/4/20 | Possible enhancement are added | Zeeshan Abbasi |

# PROJECT ANALYSIS

In project analysis analyzing the current system and gathering the requirements from different resources. OLIP provides the three online interfaces to the users. The first interface is only for the visitors called Visitor Interface that helps the user to look for the company’s information new offers, policies, news report etc. And the second interface for the customer called customer Interface that can purchase a new policy or pay premium for a previously purchased policy. Third Interface is only for administrative staff.

**1. What are the input data?** User can insert username and password to login into account.

**2. What are the sources of input data?** User is the source of input data

**3. What are the output data?** User will get information regarding different policies and can also select policy.

**4. What are the destinations of output data?** Database server is the destination of output data as all the information regarding policies are stored there.

**5. How do we convert the input data into output data?** By inserting username and password and getting logged in into account we can get access to all the details we want to get regarding policies.

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| **Requirement #** |  | **Description** |
| 1 | The user can see proper website front end is displayed when user open web page of website. | |
| 2 | The user can login to account | |
| 3 | The user can view and change his profile details.  . | |
| 4 | The user can view his policy details. | |
| 5 | The user can view due date for his premium payment. | |
| 6 | The user can view and change his payment method details. | |
| 7 | The user can check his payment history. | |
| 8 | If error happens, again login must be provided. | |
| 9 | The user can log out from the account | |
| 10 | The user can change his password | |

**a.** **Outside system**: the user

**b.** **Input data**: login and log out, select policies.

**c.** **Output data**: Can get information regarding policies, policies will be displayed and when done user can logout and message will be displayed as “logged out successfully”.

**d. Data Processing:** Enter the login information (username and password), see all the details, select policies, and get policies information, edit profile, update profile and if there is nothing else to do then user can logout from account.

Context Diagram**:**

User can login/logout of the system, can get information, select policies

Information is displayed from database on the user screen

**Figure 1**: Context Diagram of project

Depending on the data processing step, system is broken down into following subset: **Input:** Login, Get Information about Policies, update profile, edit profile, and delete profile. These are the subsystems which are important to perform the data processing functionalities. These subsystems convert the input data into output.

SUBSYSTEM DIAGRAM**:**

Website OLIP

Visit website

Login into account

**Figure 2**: Subsystem diagram

1. Input subsystem: this subsystem receives the following input data from the user: Username and password.
2. Database is subsystem, it receives information from the system and user provide it to the system, then database confirms the username and password and if authenticated then sends message to system to login successfully and system let the user login successfully, which is then displayed to user on screen.
3. User profile management (updating profile, change password, delete profile) all are third part of the system. For which all the updating is required through database. If database accept the change then system will show successfully changed/updated otherwise it will show some error.
4. User can get information and view history from system using database as well. As all the information and data is stored in database so whatever user required the system will get it from database and display it on screen.

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| **Requirements** | **Subsystem** |
|  | Input: Username |
|  | Input: Password |
|  | Database: Update profile |
|  | Database: Change password |
|  | Database: View History |
|  | Database: Apply for policy/Get Information |

### Possible enhancements:

1. For possible enhancement, advancement of adding suggested policy will be added in which admin can suggest different policy to user according to his previous policy.
2. If any issue came up, user can send ticket to admin for solution and admin can resolve it.

### Possible risks and risk mitigation:

Since this software will be hosted on a server, all the user data will be kept on the server. Product should be able to protect privacy of user data. The data of the user should only be accessed through user’s own credentials and any other user should not be able to access to other user’s private data. Also rights of the user should be restricted so that user can not harm others.