

**Submitted By: Ashish Dhakal**

**Assessment 2**

**Individual Report**

**Project title: Shared Power**

**Submitted to: University of Bedfordshire**

**Student ID:1918650**

**Unit title: Introduction to software development**

**Unit code: CIS0200-1/PAT004-1**

# 1.0 Introduction: -

The main goal of this project was to build an application known as “Shared Power”. It is an inter-mutual system where the owner can share and rent different types of highly expensive tools rather than buying them. In this application, owner can upload different types of new tools that they want to be hired by other user, search the tools that people (Normal user) want and in emergency condition they also can appeal for dispatch rider (delivery service).

Initially, we were asked to form a group of four member. According to the capability and understanding of everyone we divided our contribution to build the project. After formation of group we understood the requirements and contents of the project. According to software development lifecycle we decided to design the modelling of application that is; UML diagrams and we also analysed the scenarios.

# 2.0 Group members with their contribution in the project: -

|  |  |  |  |
| --- | --- | --- | --- |
| **S.N.** | **Group Members** | **Student Id** | **Contribution** |
| 1. | Mohit Oli | 1920622 | * Clam level Diagram * Scenarios * Hire tools |
| 2. | Ashish Dhakal | 1918650 | * Fish level Diagram * Return Tools * Search Tools * Homepage |
| 3. | Rakesh K. Yadav | 1822756 | * Class Diagram * Register * Invoice |
| 4. | Supen Shrestha | 1918605 | * Sea level diagram * Activity Diagram * Login * Add tools |

# 3.0 My Contribution:

In this group project, I was totally concentrated on Fish level Diagram, return tools, search tools and designing the homepage. For me, it became so hard to design homepage with respect to Use case diagram (in coding part). While designing homepage, I used panned window in which left window contains the menu buttons and right window displays the commands after clicking the menu buttons (denoted by command\_frame in code). In Search tools option, normal users can search tools that they want and can view the tool’s description with price and then they can hire. If user want delivery service, they can ask for it and take tool safely. For returning the tools, user must select which tool they are wanting to return in the return tool option and returns the tool.

# 4.0 Problems Faced

This is my first project, so I found out difficulties while doing the project. I did not have any idea about how to build such application, due to this I faced some unexpected problems. Due to lack in concept of our project I was not able to decide what should I mention in hire tools and view invoice. For homepage, I was stuck in the designing phase or GUI. Finally, I decided to make panned window.

When I finished the GUI of homepage, I again stuck in the backend of search tool and return tool because I lack the knowledge of tree view that required for searching the tools. The problem I faced during designing the front-end and back-end of return tool. The last and major problem faced was merging all the codes that were divided to do for each member.

# 5.0 Solutions of the Problems

While doing my work, I figured out my weakness and I tried to improve my weakness into strength. I have tried to do my best and have shown my best effort. To debug my bugs in the code, mostly I watched for YouTube tutorials. I have researched on various websites like GitHub, Stack Overflow, Python for learning. Firstly, I tried to solve these all problems by myself and if I did not able to solve those problems, I consulted to my group members after all they gave me a hint and a solution. I have also consulted with our tutors, they helped me or my whole group members to debug our problems. And finally, With the support of my wonderful group members, my mentors and I successfully tackled all the problems I faced after going through numerous assignment-related learning videos and web pages.

# 6.0 Strength and weakness of the team:

Because our team consisted of individuals that had little knowledge of each other, we took some time to learn and understand each other. No-one has given up on the team's strengths. No matter how hard the task was and how tiny the time was, we never gave up. All our problems were solved, and we made a success of the project. We were all very committed in doing our work and inspired each other in every problem we faced. So, that was the biggest strength in our party.

# 7.0 Fish level Diagrams:

A close up of a map

Description automatically generated

Fig 7.0: Login (fish level)

A close up of a logo

Description automatically generated

Fig 7.1: register (fish level)

A close up of a logo

Description automatically generated

Fig 7.2: search tools (fish level)

A close up of a logo

Description automatically generated

Fig 7.3: Return tools (fish level)