



**UNIVERSITY OF
PLYMOUTH**

NSBM Green University

Faculty of Computing

Internet of Things (IoT) Group Project

WORK BREAKDOWN STRUCTURE

	Group Number	EE
	Student ID (Plymouth)	Name (as appeared on DLE)
1	10899603	Wedamulla Madusanka
2	10899621	Chathupraba Munasinghe
3	10899521	Badal Gamage
4	10899685	Kihaduwege Sahasra
5	10899600	Senanayake Liyanage
6	10899556	Yaddehi Kishal Sankalpa

Name: Navindu Nimsara Gamage

Student Reference Number: 10899521

Module Code: PUSL2021

Module Name: Introduction to IOT

Coursework Title: Work breakdown and timeline

Deadline Date: 7 January 2024

Member of staff responsible for coursework: Mr. Isuru Sri Bandara

Programme: BSc (Hons) Software Engineering

Please note that University Academic Regulations are available under Rules and Regulations on the University website www.plymouth.ac.uk/studenthandbook.

Group work: please list all names of all participants formally associated with this work and state whether the work was undertaken alone or as part of a team. Please note you may be required to identify individual responsibility for component parts.

10899603 -Wedamulla Madinage Thisara Madusanka

10899621 -Chathupraba Devindi Munasinghe

10899521 -Navindu Nimsara Gamage

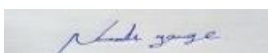
10899556 -Yaddehi Kishal Sankalpa Jayalath

10899685 -Kihaduwege Diduli Wijini Sahasra

10899600 -Senanayake Dasili Liyanage Sameepa Pramuditha

We confirm that we have read and understood the Plymouth University regulations relating to Assessment Offences and that we are aware of the possible penalties for any breach of these regulations. We confirm that this is the independent work of the group.

Signed on behalf of the group:



Individual assignment: ***I confirm that I have read and understood the Plymouth University regulations relating to Assessment Offences and that I am aware of the possible penalties for any breach of these regulations. I confirm that this is my own independent work.***

Signed:

Use of translation software: failure to declare that translation software or a similar writing aid has been used will be treated as an assessment offence.

I *have used/not used translation software.

If used, please state name of software.....

Overall mark _____ % Assessors Initials _____ Date _____

Work breakdown and timeline

Project Name	Smart Bus Tracking Gadget	Group Number	EE
Module code	PUSL2021	Date	2024/01/05

Ensuring the safety and convenience of passengers while improving the entire transportation experience necessitates the implementation of an effective smart bus tracking system. The creation of an extensive Work Breakdown Structure (WBS) chart is essential for planning and dividing the tasks necessary for the Smart Bus Tracking System to be implemented successfully. By dividing the complicated project into manageable parts, such as hardware and software integration, real-time data processing, user interface design, and networking infrastructure, this WBS chart acts as a visual roadmap. The WBS chart ensures a smooth and efficient development process for the System by methodically classifying every project aspect. This not only helps to clarify the project scope but also makes it easier to manage the project and allocate resources.

Smart Bus Tracking Gadget

Design and Architecture of the System

1.1

Define Project Scope

1.2

Identify Stakeholders

1.3

Establish Project Goals and Objectives

Testing and Integrating Sensors

2.1

Define GPS Tracker Requirements

2.2

Select Hardware Components

2.3

Design PCB (Printed Circuit Board)

2.4

Develop Hardware Prototype

Testing and System Integration

3.1

Define Software Requirements

3.2

Develop GPS Data Processing Algorithm

3.3

Integrate Communication Module

3.4

Develop Device Firmware

3.5

Integrate Sensor Data Processing

Optimization and Refinement

4.1

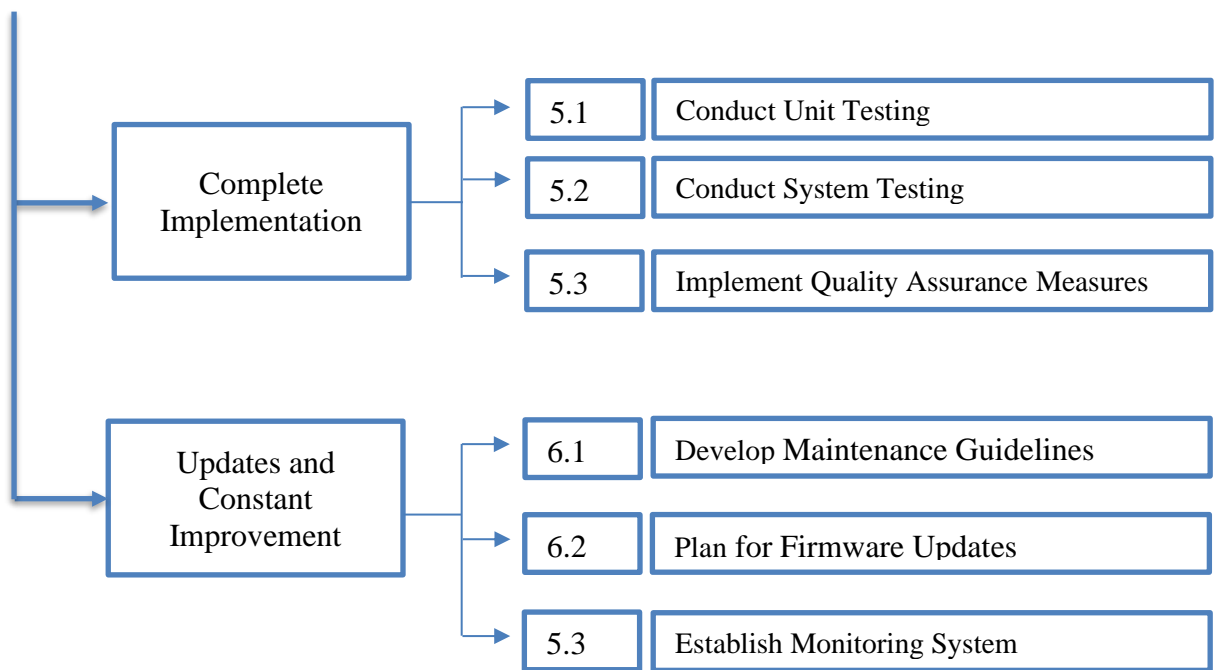
Identify Additional Sensors

4.2

Ensure Data Security and Encryption

4.3

Implement Power Management



Gantt chat for the work breakdown structure timeline

Smart Bus Tracking System

Read only view, generated on 05 Jan 2024

