Project Proposal

Group No: Charlie

Section: B

Group Members:

201614107 Lt Ema

201714101 Lt Safkat

201714103 Lt Nahian

201714109 Lt Labiba

201714113 Lt Lopa

MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY

Department of Computer Science and Engineering

Project Proposal of IDP

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1. **Group No: Charlie** **Date**: 19/08/20

2. **Section: B** **Session**: 2017-18

3. **Program: CSE-18**

4. **Tentative Title**: Vehicle Logbook Maintenance System

5. **Background and Present State of the Problem**:

All vehicles in military have their individual logbooks which is usually maintained by a Sergeant. Till now they are still being maintained in hard copies which have inevitable limitations. Some of them are following:

- Not properly updated.
- Conflicts between information in logbook and on ground.
- Preservation of its hardcopy.
- Maintenance of vehicles are not ensured.
- Lack of security as it can be easily manipulated.

6. **Objectives with Specific Aims and Possible Outcome**:

Objectives:

- Creating an Efficient System
- Easily Updateable
- Ensuring Proper Maintenance
- Ensuring Security
- Providing Authenticity

Outcomes:

- Always an updated Logbook.
- Easy trace of vehicle condition.
- Vehicle maintenance will be ensured
- Errors will be neutralized
- Handing taking of vehicles can easily be done among units using it
- Secured
- Quartermaster can access to any logbook of any vehicle at any time.

7. **Outline of Methodology/Experimental Design**:

On Ground Inspection: Extracting the BA number of any vehicle using our made scanner with our specific software installed in the laptop. Later the details about the vehicle can be seen. Maintenance of vehicle can be ensured in this way.

Data Insertion: All the vehicles will have their individual account by their BA no, and it will be updated according by the supervision of the Workshop Officer.

8. **Covered domains**

☐Theoretical CS and Algorithms	☒Information Security
☒Networking	☐Computer Vision
☒Database and Data Mining	☒Pattern Recognition
☐Cloud Computing and Big Data	☐Internet of Things (IoT)
☐AI and Robotics	☐Human Computer Interactions (HCI)

9. **Cost Estimate**:

Ser No	**Items**	**Cost (Taka)**
1	Cost of Equipment (ESP32-CAM + Arduino Uno + wires)	4000
2	Field works	
3	Conveyance / Data Collection	
4	Typing, Drafting, Binding and Paper etc.	1000
Total Amount		5000

10. **Market Analysis**:

Our project is going to be unique. So far nothing digitalized is used for vehicle logbook maintenance but ours one will be.

Signature of the group members:

Serial No	Student ID	Name	Email	Signature
01.	201614107	Ishraq Jahan Ema	ishrakema01@gmail.com	
02.	201714101	Md. Safkat Rahman	safkatrahman31@gmail.com	
03.	201714103	Tanvir Nahian Swapnil	zabulanakakil@gmail.com	
04.	201714109	Labiba Islam	labiba.islam.24697@gmail.com	
05.	201714113	Lopa Ahmed	lopaahmed296@gmail.com	

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Signature of the Course Teachers