



American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

## ANTI-SYNDICATE REPORTING AND ALERT SYSTEM

A Software Engineering Project Submitted

By

Semester: Fall 24-25		Section: B	Group Number: 4	
SN	Student Name	Student ID	Contribution (CO3+CO4)	Individual Marks
1	Ahasan Habib	22-48877-3		
2	Abul Bashar Saurov	22-48823-3		
3	MD. Sajib Mondol	22-48824-3		
4	Anik Ben Alamgir	22-47941-2		
5	Ujjoyeni Dey	22-49001-3		

The project will be Evaluated for the following Course Outcomes

<b>CO3:</b> Select appropriate software engineering models, project management roles and their associated skills for the complex software engineering project and evaluate the sustainability of developed software, taking into consideration the societal and environmental aspects	Total Marks	
	Appropriate Process Model Selection and Argumentation with Evidence	[5 Marks]
	Evidence of Argumentation regarding process model selection	[5Marks]
	Analysis the impact of societal, health, safety, legal and cultural issues	[5Marks]
<b>CO4:</b> Develop project management plan to manage software engineering projects following the principles of engineering management and economic decision process	Submission, Defense, Completeness, Spelling, grammar and Organization of the Project report	[5Marks]
	Total Marks	
	Develop the project plan, its components of the proposed software products	[5Marks]
	Identify all the activities/tasks related to project management and categorize them within the WBS structure. Perform detailed effort estimation correspond with the WBS and schedule the activities with resources	[5Marks]

Identify all the potential risks in your project and prioritize them to overcome these risk factors.	[5Marks]	
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### Description of Student's Contribution in the Project work

<p>Student Name:  Student ID:  Contribution in Percentage (%):  <u>Contribution in the Project:</u></p> <ul style="list-style-type: none"> <li>▪ Contribution Description 1</li> <li>▪ Contribution Description 2</li> </ul> <p>_____  Signature of the Student</p>
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Contribution in Percentage (%):

Contribution in the Project:

- Contribution Description 1
- Contribution Description 2

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Signature of the Student

# **1. PROJECT PROPOSAL**

## **1.1 Background to the Problem**

In many markets in Bangladesh, shop owners often face illegal fee collections or extortion by syndicate members. This situation makes it hard for businesses to thrive and creates an unsafe environment for everyone. Current ways of reporting these problems, like going to the police in person, are often slow and don't work well. Many incidents go unreported, allowing these illegal activities to continue. We need a simple and easy platform where shop owners can report these issues quickly and safely. Customers also need a way to check the prices set by the government to report any overpriced goods.

## **1.2 Solution to the Problem**

To address these issues, we propose creating the "Anti-Syndicate Reporting and Alert System" app. This mobile and web-based platform will help shop owners report illegal fee collections in real time, allowing security guards and police to respond quickly. Customers will also be able to see fixed government prices for products, so they can report any cases of overpricing.

### **Solution Description:**

- The app allows shop owners to report illegal fee collections directly to security guards and police.
- It enables customers to verify government prices for products, making it easier to report overpricing.
- The app includes features for collecting evidence, community support, and data analysis to help prevent future problems.
- Additional features like community voting, witness testimony options, heatmaps of incidents, and rewards for reporting will enhance its usefulness.

### **Why This Solution Works:**

The "Anti-Syndicate Reporting and Alert System" app is perfect for Bangladesh because most people have mobile phones. This makes it easy for shop owners and customers to use the app. It streamlines the reporting process, making it much simpler than traditional methods. By creating a direct line of communication between citizens, shop owners, and government officials, the app improves transparency and accountability in the market.

### **Feasibility and Business Objectives:**

This solution is practical and supports the goals of improving market safety and trust in pricing. Since many people in Bangladesh have mobile phones, the app will be easy to access. Key

features like real-time reporting, evidence collection, and price verification use modern technology to solve real problems. This project has the potential to change how shop owners and customers interact with authorities, leading to a fairer marketplace.

### **Target Group of Users:**

- Shop owners dealing with extortion from syndicate members.
- Customers wanting transparency about product prices.
- Security personnel and police responding to reports.
- Administrators managing the app and users.

### **Description of Features & User Benefits:**

The "Anti-Syndicate Reporting and Alert System" app has several important features that use technology to solve major issues in Bangladesh:

#### **1. User Authentication:**

- Users can log in securely using their email, phone number, or social media accounts.
- Different roles (Shop Owner, Customer, Security Guard, Police, Admin) can be assigned to ensure proper access.

#### **2. Incident Reporting:**

- Shop owners can easily report illegal fees with details like location and description.
- They can upload photos or videos as evidence.
- Customers can also report overpriced goods by checking government prices.

#### **3. Community Voting & Rating System:**

- Users can "upvote" reports of recurring incidents, helping authorities focus on serious issues.
- This makes it easier to hold repeat offenders accountable

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**4. Witness Testimony Option:**

- Other customers or shop owners can add testimonies to support existing reports.
- This helps law enforcement with more reliable evidence.

**5. Market-Specific Incident Heatmap:**

- A live map shows areas with frequent incidents.
- This helps authorities and shop owners to tackle problems in high-risk areas.

**6. Weekly/Monthly Market Transparency Reports:**

- The app generates reports summarizing trends in extortion and pricing practices.
- This helps users stay informed and encourages accountability.

**7. Shop Verification Badge System:**

- Shops that follow government pricing guidelines receive badges.
- Customers can easily find compliant shops, promoting fair practices.

**8. Local Language Dialect Support:**

- The app includes dialects from different regions for better understanding.
- This makes the app more accessible to everyone.

**9. Emergency Safety Features for Reporters:**

- A “quick exit” feature hides the app screen in dangerous situations.
- This keeps users safe while reporting issues.

**10. Community News Bulletin:**

- A section for verified news about market conditions.
- This keeps users informed and aware of important issues.

**11. Real-Time Incident Escalation System:**

- Users can mark incidents as “urgent” to get faster help.
- This adds an extra layer of safety for critical situations.

#### **12. Reward Points for Reporting Compliance Violations:**

- Users earn rewards for accurately reporting issues.
- This encourages more participation in keeping the market fair.

#### **13. Anonymous Community Surveys for Feedback:**

- Monthly surveys for users to share their thoughts on market conditions and the app.
- This helps improve the app based on user feedback.

#### **Contribution to Development:**

The "Anti-Syndicate Reporting and Alert System" app will boost community involvement and improve market fairness in Bangladesh. It empowers both shop owners and customers to report illegal activities and ensures transparency in pricing. This app promotes a safer and more trustworthy marketplace, benefiting everyone involved.

#### **Social and Environmental Effects:**

The app encourages community participation and makes government actions more transparent. While it helps reduce illegal activities, it may raise concerns about personal information collection. To address these concerns, user privacy will be prioritized, and efforts will be made to ensure the app is easy for everyone to use. Additionally, by reducing paper use for complaints, the app helps the environment, although it may lead to electronic waste due to increased smartphone use.