

**Project Presentation Of FSE**  
on  
**Lost and Found**

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## **2.1 Background**

Historically, lost and found systems relied on physical notice boards and word-of-mouth, often resulting in inefficiencies and prolonged recovery times for lost items. The shift to digital platforms has revolutionized the process, enabling quicker reporting, tracking, and retrieval of lost property through user-friendly interfaces and mobile applications.

## **2.2 Problem Statement**

**A Lost and Found Website** aims to help individuals report and recover lost belongings efficiently. Users can list lost or found items with descriptions, images, and locations. The platform enables secure communication between finders and owners while incorporating search filters and verification methods to prevent fraud, ensuring a transparent and organized recovery process. By digitizing the lost-and-found process, this website aims to enhance efficiency, transparency, and success rates in reuniting people with their belongings.

# **WHY UNIQUE?**

- **AI-Powered Matching** – Uses AI to match lost and found items based on descriptions, images, and locations, increasing recovery chances.
- **Proof of Ownership Verification** – Requires users to submit proof (receipts, serial numbers, or unique identifiers) to prevent fraudulent claims.
- **Geo-Tagging for Accuracy** – Allows users to pinpoint the exact location where an item was lost or found, enhancing search precision.
- **Anonymous Communication** – Enables secure messaging between the finder and the owner without revealing personal contact details.
- **Reward System Integration** – Encourages ethical returns by allowing users to offer optional rewards for retrieving lost items.



FoundIt.

Home

Report(Lost/found)

AboutUs

Search

Contact Us

Profile

## Find Your Lost Items or Report Found Ones

The easiest way to report and discover lost or found items in your area.

Report Lost Item

Report Found Item

Search for items (e.g., 'iPhone 14')



"Reuniting the lost"

## Report Lost or Found Item

Item Name

**Lost**

**Found**

Date

Time

Location

Description

Upload Image

No file chosen

**Cancel**

**Submit**



Search items... ▾

All Types ▾ All Status ▾



**airpods**  
**Lost**  
Reported by: Arshia Sharma  
Location: Turing

Active Claim



**keys**  
**Lost**  
Reported by: Arshia Sharma  
Location: Square 1

Active Claim



**Charger**  
**Found**  
Reported by: Arshia Sharma  
Location: Library

Active Claim



**Wallet**  
**Found**  
Reported by: Ishika Chopra  
Location: Square 2

Active Claim



**Shoes**  
**Lost**  
Reported by: Ishika Chopra  
Location: Chitkara Gym

Active Claim



**Bracelet**  
**Found**  
Reported by: Ishika Chopra  
Location: Alpha Zone

Active Claim

## TECHNOLOGIES AND TOOLS

### **Methods :**

The development methodology follows Agile principles, focusing on iterative development and continuous feedback. The project will be divided into sprints, each delivering key components of the system.

Its development will make use of a variety of tools and technology, such as:

- MongoDB: Scalable data management and storage in a NoSQL database.
- A web application framework for creating reliable backend services is called Express.js.
- React is a JavaScript package designed for creating interactive and dynamic user interfaces.
- Node.js is a server-side development environment for JavaScript.

1. **Mobile App Integration** – Develop a mobile app with real-time notifications to alert users when a matching item is found.
2. **AI-Based Image Recognition** – Implement AI to scan and match images of lost and found items for quicker identification.
3. **Blockchain for Ownership Verification** – Use blockchain technology to securely store ownership details and prevent fraudulent claims.
4. **Integration with Public Spaces** – Collaborate with airports, malls, and transport hubs to automate lost-and-found services.
5. **IoT and Smart Tags** – Enable tracking through smart tags (RFID/NFC) that notify users when their item is found or moved.

# CONCLUSION

The **Lost and Found Website** serves as an innovative and efficient solution to help individuals recover misplaced belongings. By integrating features like AI-powered matching, secure communication, and proof of ownership verification, it enhances transparency and trust. With future advancements like mobile apps, blockchain, and IoT integration, the platform can revolutionize lost-and-found management, ensuring a seamless and organized recovery process for users worldwide.

## KEY POINTS:-

- Provides an efficient and digital solution for lost-and-found management.
- Prevents fraudulent claims through proof of ownership verification.
- Future advancements like blockchain, IoT, and mobile apps can improve efficiency.
- Enhances transparency with AI-powered matching and secure communication.
- Aims to become a global platform for quick and organized item recovery.

## BIBLIOGRAPHY/REFERENCES

- MongoDB Documentation. "NoSQL Database for Modern Applications." MongoDB, 2024. <https://www.mongodb.com>
- React.js Official Documentation. "A JavaScript Library for Building User Interfaces." Meta, 2024. <https://reactjs.org>
- Node.js Documentation. "JavaScript Runtime Built on Chrome's V8 JavaScript Engine." OpenJS Foundation, 2024. <https://nodejs.org>
- Twilio API Documentation. "Cloud Communications Platform." Twilio, 2024. <https://www.twilio.com/docs>
- SendGrid API Documentation. "Email Delivery Service." SendGrid, 2024. <https://sendgrid.com/docs>
- AWS Documentation. "Amazon Web Services: Cloud Computing Services." AWS, 2024. <https://aws.amazon.com/documentation>

# Thank You