

Launching Our Second-Hand Phone Marketplace

Welcome to our presentation on the exciting new second-hand phone marketplace! We're building an innovative platform to connect buyers and sellers, making sustainable tech accessible to everyone. This presentation outlines our agile sprint approach and key team contributions.



Our Agile Approach to Development

1 Sprint-Based Workflow

Iterative development cycles for rapid progress.

2 Cross-Functional Collaboration

Teams working together, sharing expertise.

3 Continuous Feedback

Regular reviews and adjustments to ensure quality.

4 Adaptability & Flexibility

Responding to changes and new insights.



Project Vision: Circular Economy for Phones

Extend Phone Lifespan

Reducing electronic waste, promoting reuse.

Affordable Tech Access

Making quality phones available to all budgets.

Trusted Marketplace

Ensuring secure and reliable transactions.



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Name	Assignee	Due date	Platform C...	Developme...	
Tools & Technologies					
Frontend development tools selection	be2022se8...	May 18	User int...		
Backend development tools selection	kabitaadK5...	May 18			
Database selection	kabitaadK5...	May 19	Database		
UML diagrams and wireframes tools	be2022se8...	May 15			
Machine Learning tools selection	be2022se8...	Today	Price Pr...		
Web Scrapping tools selection	be2022se8...	Tomorrow			
Documentation tools selection	be2022se8...	Tuesday			
Version control and collaboration tools	be2022se8...	Wednesday			
Coding environment setup	kabitaadK5...	Friday			
Add task...					
Backlog & Sprint Management					
Create project timeline using Gantt Chart	kabitaadK5...				
Develop data collection strategy	kabitaadK5...				
Implement data preprocessing procedures	kabitaadK5...				
Perform feature engineering for ML model	kabitaadK5...		Price Pr...		
Train and evaluate linear Regression model	kabitaadK5...		Price Dr...		

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Name	Assignee	Due date	Platform C...	Developme...	
Backlog & Sprint Management					
✓ Create project timeline using Gantt Chart	ka kabitaadK5...				
✓ Develop data collection strategy	ka kabitaadK5...				
✓ Implement data preprocessing procedures	ka kabitaadK5...				
✓ Perform feature engineering for ML model	ka kabitaadK5...		Price Pr...		
✓ Train and evaluate Linear Regression model	ka kabitaadK5...		Price Pr...		
✓ Deploy ML model through API	ka kabitaadK5...		Price Pr...	Deploy...	
Add task...					
Lessons Learned					
✓ Analyze strengths of the Waterfall methodology implementation	be be2022se8...	Jun 3			
✓ Identify challenges in data collection and preprocessing	be be2022se8...	Jun 5			
✓ Evaluate the effectiveness of Linear Regression for price predic	be be2022se8...	Jun 18	Price Pr...		
✓ Review communication and collaboration effectiveness	be be2022se8...	Today			
Add task...					
Next Steps					
✓ Enhance the machine learning model with more advanced algoi	be be2022se8...	Jul 24	Price Pr...		

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Name	Assignee	Due date	Platform C...	Developme...	
Deploy ML model through API	kabitaadk5...		PRICE Pr...	Deploy...	
Add task...					
Lessons Learned					
Analyze strengths of the Waterfall methodology implementation	be2022se8...	Jun 3			
Identify challenges in data collection and preprocessing	be2022se8...	Jun 5			
Evaluate the effectiveness of Linear Regression for price predic	be2022se8...	Jun 18	Price Pr...		
Review communication and collaboration effectiveness	be2022se8...	Today			
Add task...					
Next Steps					
Enhance the machine learning model with more advanced algor	be2022se8...	Jul 24	Price Pr...		
Implement user feedback collection system	be2022se8...	Jul 31			
Expand platform to include other electronic devices	be2022se8...	Jul 26			
Develop mobile application version	kabitaadk5...	Jul 25	User Int...		
Integrate with payment gateways	kabitaadk5...	Jul 27			
Implement advanced analytics dashboard	be2022se8...	Jul 28	Admin D...		
Add task...					
Add section					

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Name	Assignee	Due date	Platform C...	Developme...	
Agile Implementation					
Implement Waterfall methodology for project development	be2022se8...	May 11			
Complete Requirement Analysis phase	be2022se8...	May 12		Require...	
Complete System Design phase	ka2022se8...	May 11		System ...	
Execute Coding phase	ka2022se8...	May 12		Coding	
Conduct Testing phase	be2022se8...	May 11		Testing	
Plan Deployment phase	be2022se8...	May 12		Deploy...	
Outline Maintenance phase	be2022se8...	May 15		Mainten...	
Add task...					
Tools & Technologies					
Frontend development tools selection	be2022se8...	May 18	User int...		
Backend development tools selection	ka2022se8...	May 18			
Database selection	ka2022se8...	May 19	Database		
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Machine Learning tools selection	be2022se8...	Today	Price Pr...		
Web Scraping tools selection	be2022se8...	Tomorrow			
Documentation tools selection	be2022se8...	Tuesday			

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Name	Assignee	Due date	Platform C...	Developme...	
Problem Statement & Solution					
Addressing the lack of intelligent pricing tools in second-hand i	ka kabitaadk5...	May 1	Price Pr...	Require...	
Developing an AI-powered price prediction system	ka kabitaadk5...	May 2	Price Pr...	System ...	
Creating a transparent and trustworthy marketplace	ka kabitaadk5...	May 4	Trust Ba...	Require...	
Implementing Linear Regression for price prediction	ka kabitaadk5...	May 4	Price Pr...	Coding	
Add task...					
Team Roles & Dynamics					
Define team structure and responsibilities	be be2022se8...	May 8			
Assign frontend development responsibilities	be be2022se8...	May 8	User Int...	Coding	
Assign backend development responsibilities	be be2022se8...	May 9	Database	Coding	
Assign machine learning team responsibilities	be be2022se8...	May 9	Price Pr...	Coding	
Add task...					
Agile Implementation					
Implement Waterfall methodology for project development	be be2022se8...	May 11			
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Add task...					
Add section					

Backend Development: Kabita Adhikari

Kabita Adhikari leads our backend development, focusing on robust and secure server-side operations.

1 Database Architecture

Designing efficient data storage for listings, users.

2 API Development

Building seamless communication with the frontend.

3 Security Protocols

Implementing data encryption and user authentication.

Key Responsibilities:

- User authentication system
- Product listing management
- Transaction processing logic
- Scalable infrastructure

Frontend Development: Bhawana KC

Bhawana KC is spearheading our frontend development, creating an intuitive and engaging user experience.

User Interface Design

Crafting a clean, visually appealing layout.

Responsive Design

Ensuring compatibility across devices.

Interactive Elements

Enhancing user engagement and navigation.

Focus Areas:

- Product display pages
- Search and filter functionalities
- User dashboard and profiles
- Smooth checkout process

Data Collection & Analysis: Prasamsha Tripathi

Prasamsha Tripathi leads the crucial data collection and analysis efforts, providing market insights.



Market Research

Identifying popular phone models and pricing trends.



Data Sourcing

Gathering information on phone specifications and condition.



Insight Generation

Informing product features and marketing strategies.

Sprint 1 Achievements & Next Steps

Key Achievements:

- Initial database schema designed
- Basic user authentication implemented
- Frontend wireframes completed
- Initial market data collected

Upcoming Sprint Goals:

- Develop product listing API endpoints
- Build product detail pages on frontend
- Integrate preliminary search functionality
- Expand data on phone models and pricing

Collaborate & thrive.



Summary & Call to Action

Our team is committed to delivering a top-tier second-hand phone marketplace through agile development. Each member's expertise is vital to our collective success.

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