

VILNIUS UNIVERSITY
FACULTY OF MATHEMATICS AND INFORMATICS
INFORMATICS STUDY PROGRAM

Vision document: “Online Auction Platform for Algeria”

Subject: **IT PROJECT MANAGEMENT**

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1.Purpose

To implement a organized auction platform that enables competitive and transparent sales of vehicles, real estate, and goods in Algeria.

2.Motivation

There is currently no structured auction system in the Algerian market. This is digital platform addresses that gap by introducing a new format of auction-based digital commerce.

3. Goal

Development of an auction-based platform for deferent categories of products in Algeria. The project will be completed within 4 months, starting from 1 December 2025. It responds to a real market need.

4.Current Situation

The Algerian market relies mainly on fixed-price listings through informal platforms such as Ouedkniss and Facebook Marketplace, without competitive pricing mechanisms. Users often complete deals outside these platforms, leading to a lack of traceability and trust, especially due to unverified users. Online auctions are nearly nonexistent, mainly because of the previous absence of digital infrastructure and a long-standing reliance on offline, face-to-face transactions. However, the environment is now changing, as the Algerian government is actively promoting digital commerce by encouraging the use of CIB cards and local e-payment systems, making conditions more favorable for structured online selling.

5. Situation after

With the implementation of the auction platform, users will have access to a structured and transparent system for buying and selling. Listings will include competitive, time-bound bidding instead of static pricing. The platform will integrate robust account verification, comprehensive user rating systems. Transactions will be processed within the platform by integration of local e-payment methods will support smoother digital transactions.

6.Scope of the Decision

- **In scope:**
 - User registration, profile management, and item publishing process.
 - Competitive bidding system with defined auction timelines.
 - Administrative tools for monitoring, content control, and basic reporting.
 - Integration with Algerian e-payment systems.

- Support for Arabic, French, English interfaces.
- **Out of scope:**
 - Logistics, shipping, or delivery services for sold items.
 - International auction listings or cross-border payments.
 - In-app messaging or real-time chat features.
- **Boundaries:**
 - The platform will operate within Algerian legal, financial, and language constraints.
 - The scope is limited to auction functionality, fixed-price e-commerce is excluded.
 - The system will serve Algerian users only and use local payment infrastructure.

7. Alternatives

1. Enhance Existing Classified Platforms:

Collaborate with existing Algerian platforms (e.g., Ouedkniss) to add auction functionality to their current fixed-price systems. This solution is fast, cost-effective, and leverages platforms users already trust.

2. Localize an International Auction Platform:

Partner with a global provider (e.g., eBay white-label) and adapt their system for Algeria, including language, payment methods, and regulations. This brings mature technology but limits local control and flexibility.

3. Develop a New Dedicated Auction Platform:

Build a full online auction platform from scratch, fully customized for the Algerian market. While this offers maximum flexibility, it requires more time, higher costs, and user adoption risks.

8. Evaluation Alternatives

(0 – 5) Scale from low to high

Criteria	Alternative 1	Alternative 2	Alternative 3
Cost	5/5	2/5	2/5
Familiarity	5/5	3/5	2/5
Time to Launch	4/5	3/5	1/5
Support & Maintenance	4/5	3/5	5/5
Accessibility	5/5	4/5	3/5
Total	23/25	15/25	13/25

Recommended alternative is alternative 1 enhancing an existing Algerian platform is the most practical solution (23/25). It delivers faster implementation, lower costs, higher user familiarity, and builds on existing trust, making it the most efficient choice for the market at this stage.

9. Output and outcome

Output:

- Added auction functionality integrated into an existing Algerian classified platform
- User interface for creating auctions and placing bids
- Administrative dashboard for monitoring, content moderation, and basic reporting.
- Integration of local e-payment systems (e.g., CIB).
- Multilingual interface support (Arabic, French and English).
- User profile and rating display system.
- User guides and technical documentation for platform operation and maintenance.

Outcome:

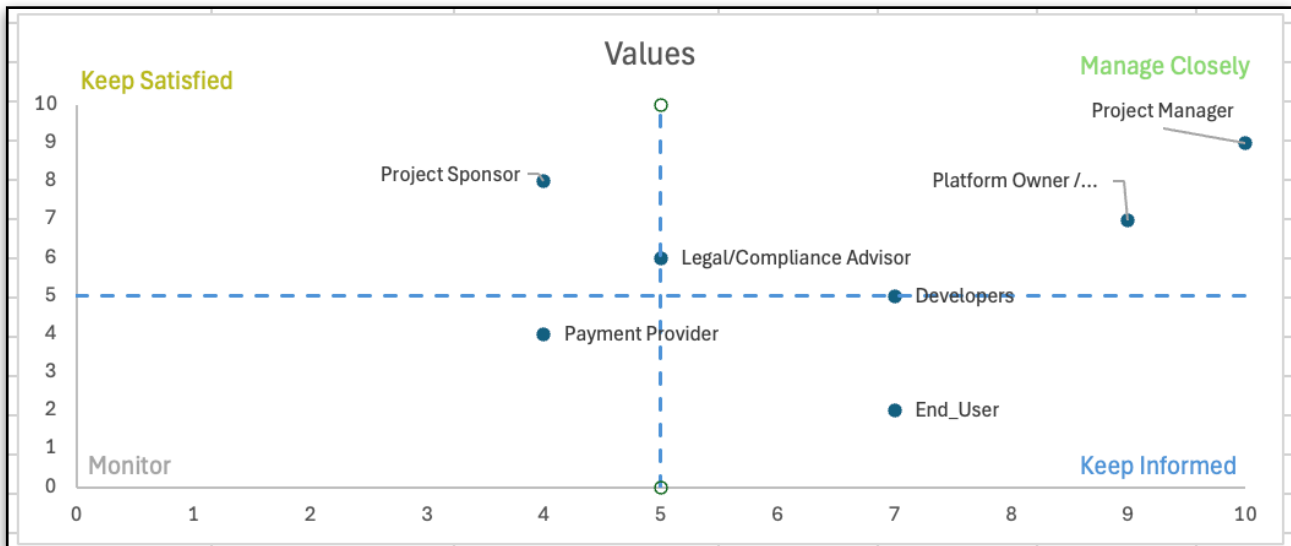
- Faster user adoption due to familiarity with the existing platform.
- Introduction of structured, competitive selling via time-based auctions.
- Increased user engagement and broader buyer participation.
- Improved transaction process with better traceability and reduced informal dealing.

10. Stakeholders and responsibilities

Stakeholders	Role	Responsibilities
Platform Owner / Partner	Business Partner	<ul style="list-style-type: none"> - Provides access to the existing platform - Collaborates on integration - Ensures business alignment
Project Sponsor	Financial/Strategic Oversight	<ul style="list-style-type: none"> - Approves funding, monitors progress. - Ensures the project aligns with strategic goals
Payment Provider	Integration Partner	<ul style="list-style-type: none"> - Supports technical and compliance requirements for secure payment system integration
IT Project Manager	Project Lead	<ul style="list-style-type: none"> - Plans and coordinates tasks - Manages timeline and resources - Ensures deliverables are met
Development Team	Technical Execution	<ul style="list-style-type: none"> - develop and implement the platform - Integrate payments system
Legal/Compliance Advisor	Regulatory Consultant	<ul style="list-style-type: none"> - Ensures all platform features meet Algerian legal and e-commerce regulations

Stakeholders	Role	Responsibilities
End Users	System Users	- Participate in auctions, provide feedback, and shape future feature priorities

11. Stakeholder Map



12. Risks

Risk	Type	Probability (1-3)	Impact (1-3)	Effect (1-9)	Mitigation
Platform integration delays	Process	2	3	6	Plan early meetings and define access points and responsibilities up front
Payment system issues	Technology	2	3	6	Choose reliable local partners, test thoroughly before launch
Low user adoption	People	1	3	3	Create short tutorials, run a launch campaign, use simplified UX
Regulatory restrictions	Environment	1	2	2	Involve a legal advisor early; adapt features to comply with local regulations
Unstable internet in remote areas	Environment	2	2	4	Allow retry/payment recovery

13.Risk Matrix

		Impact		
		Low	Medium	High
Probability	High	0	0	0
	Medium	0	1	2
	Low	0	1	1

14.Trade off

	Fixed	Flexible	Adjustable
Cost	X		
Time		X	
Scope			X

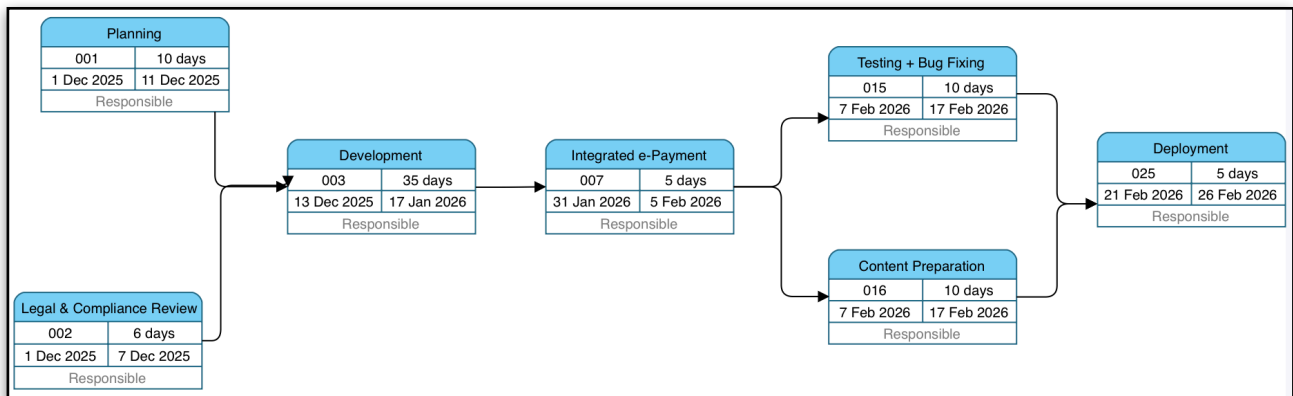
Description : In this project, cost is fixed due to predefined financial limits. The timeline is flexible within a small range to allow adjustments if needed. Scope is adjustable, meaning certain features can be added or removed based on progress and resource availability.

15.Timeline and buffers

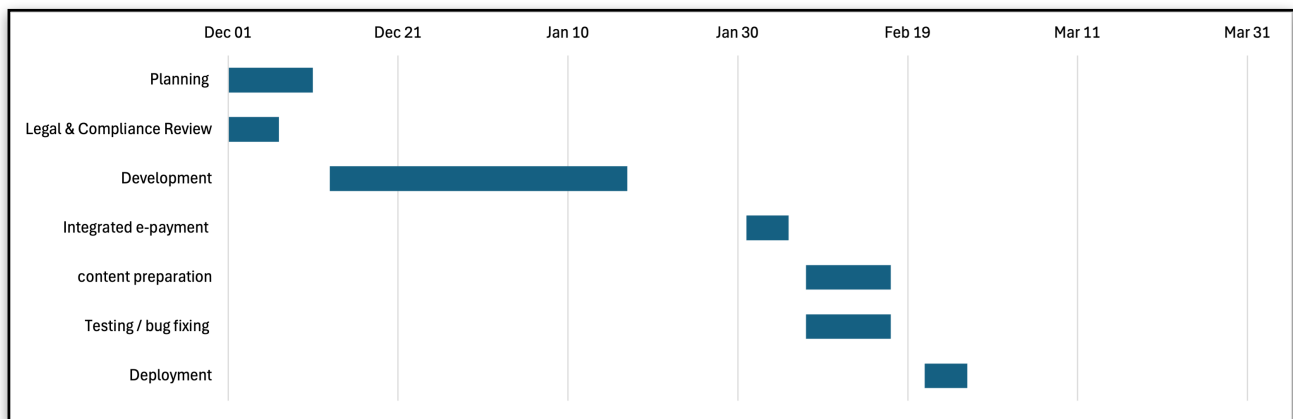
Phase	Task	Time	Buffer
Planning + Legal & Compliance	Planning + Review legal regulations	2 weeks	0.5 week
Development	Design and build auction logic	6 weeks	1 week
Integrated e-payment	Integrate the local e-payment	1 week	0.5 week
Testing + Content preparation	QA testing + prepare launch communication and support content	2 weeks	1 week
Deployment	Launch auction feature	1 weeks	—

16.Scheme

- Pert chart:



- Gantt chart:



17.Budget

Items	Budget
Project Management	€4,250
Developers	€12,500
Legal/Compliance Advisor	€800
Integration with platfrom cost	€4,500
Warranty 1 year	€2000
e-Payment Integration cost	€450
Total	€24500

