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eVoting System

Version 1.0

Revision History

Date	Version	Description	Author
14/MAR/2019	1.0	Initial Project Statement	Bogdan-Nicolae Salău

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Vision

1.Introduction

In today's Romanian society there is a continuous struggle between the old and the new. This conflict can be observed mostly in politics where the ones who dictate the rules are not doing it as a reflection of the society's needs. The main issue here is that the younger generations aren't really implied in politics and traditional voting seems not to be so fashionable so a solution would be to bring the traditional voting procedures in the online world by creating an eVoting system.

1.1.Purpose

The purpose of the eVoting System is to partially and later fully replace the old and obsolete traditional voting system in Romania with a more modern and fair implementation. Our aim is to reduce the human involvement in the voting procedure to a minimum, if not to eliminate it completely and consequently to avoid unnecessary human queues at the font desks of the voting centres. Beside reducing the costs that the government pays in order to organise the elections, another purpose is to make voting more accesible for Romanians from all over the world. The first step in our vision is to eliminate all paper documents involved and replace them with electronic equivalents. The second step is to keep a database of all the people that are eligible for a vote. The final step is to devise a new algorithm that makes statistics faster for the final result of the elections and as well to give insights in real time regarding the state of the elections.

1.2.Scope

The following features will be covered by the eVoting System[1]:

- User Authentication (Login by your CNP + picture of your ID card)

- See personal voting history

- See the available elections at a given time and the date of future elections

- Enter an election and see the candidates

- Vote only for one candidate

- See the live statistics of the ongoing elections

- See the description of every candidate

The following services are out of the scope of this project and will be provided by other systems:

- Service that recognizes pictures/scans and validates data for evidence that the voter is has the required rights

- Service that ensures the system's security

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[1] You need to have at least five features in your scope:
1. Login + Register
2. List View of elements (must contain joined tables)
3. Details view of one element
4. Create new element (with a form behind)
5. Update and Delete Element

1.3.Definitions, Acronyms, and Abbreviations

Throughout this and all related papers the following terms will be defined and understood by the reader as follows:

Term	Definition
Election	A procedure initiated by the government that has the final purpose of finding out who the people favor for a certain position. More than one election can take place at a given moment, eg. Presidential elections, General elections.
Voter	A citizen that is at least 18 years old and has a valid ID.
ID	Identity Card
Candidate	A citizen that candidate for a single election representing a single party.
Party	A politic entity that can have zero, one or many candidates for each election.

1.4.References

For further clarifications see the following resources:

- Project_UseCaseModel_Vote
- Project_UseCaseModel_SeeCandidateDescription
- Project_SupplementarySpecification
- Project_Analysis_and_Design_Document

1.5.Overview

The upcoming sections of the document will describe the product relative to other voting systems. We will then continue by describing the involved stakeholders, the end users, the end user environment and the product hardware and software requirements.

2.Positioning

2.1.Problem Statement

The problem of	Traditional voting
affects	All citizens that are at least 18 years old
the impact of which is	Long waiting queues and low voting presence
a successful solution would be	To create an online voting system with transparent live statistics and worldwide availability.

2.2.Product Position Statement

For	The Romanian Government
Who	needs to provide the possibility to vote to all the country's citizens
The Voting System	is an evidence system
That	Accepts and centralizes user's voting preferences in a matter of seconds.
Unlike	The old paper and clerk voting system
Our product	• Will increase the voting presence • Provides transparent live statistics • Eliminates corruption and fraudulent vote scamming techniques • Reduces operational costs for the government

3.Stakeholder and User Descriptions

3.1.Stakeholder Summary

Name	Description	Responsibilities
President	Elected by the citizens once every 5 years to represent and serve their interests. Is interested to provide a good solution for the elections	Rises the public approval regarding the project
Voting centers Clerks	The stakeholder(s) currently in charge with receiving and guiding voters during the elections. The current system will take away his job	Will try to stop the project if possible
System Administrator	The person in charge with maintaining the system after implementation.	Ensures system integrates with other systems from the national informatic system. Ensures system is maintainable. Provides valid data to the system database

| Prime minister | Allocates the money for the project | Has the responsability to ensure that the system requirements will be met |
| Implementation Team | The team developing the project. | Provide a clean implementation with minimum effort. |

3.2. User Summary

Name	Description	Responsibilities	Stakeholder
Citizen	The user that wants to vote	Submits all required documents so he can vote. Chooses a candidate for a certain election. Reads the descriptions of each candidate.	He is a direct user
System Administrator	The admin that supervises the overall status of the election.	Generates reports.	He is a direct user

3.3. User Environment

Citizen

The citizen is considered to vote from his personal computer at home, in a non-stressful and calm environment.

System Administrator

The Sys admin is considered to work from the government's office.

4. Product Requirements

For either user, the product requires first of all a stable internet connection, a computer with at least 8 GB RAM, Dual Core processor, one monitor, mouse and keyboard.

The product must integrate with the country's informatic security system and the system of the police department.