

**An-Najah National University**  
**Department of Computer Engineering**



**Faculty of Engineering & Information Technology**

**Software Graduation Project**

**E-Vote**

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Bachelor in Computer Engineering**

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## Disclaimer Statement

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## Table of Contents

<b>Acknowledgment.....</b>	<b>2</b>
<b>Disclaimer Statement.....</b>	<b>3</b>
<b>Table of Contents.....</b>	<b>4</b>
Abstract.....	6
Chapter 1: Introduction.....	7
1.1 Statement of the Problem:.....	7
1.2 Project Objectives:.....	7
1.3 Significance:.....	7
1.4 Organization:.....	8
<b>Chapter 2: Theoretical Background and Previous Work.....</b>	<b>8</b>
2.1 Theoretical Background:.....	8
2.1 Previous Work:.....	8
<b>Chapter 3: Methodology.....</b>	<b>9</b>
3.1 Standards and Specifications (Codes):.....	9
3.1.1 Tools :.....	9
3.2.1 Screen Adaption :.....	9
<b>Chapter 4: Results.....</b>	<b>10</b>
4.1.1 Database Structure:.....	10
4.1.2 User Application:.....	17
4.1.3 Web Application:.....	21
4.2 Constraints:.....	30
4.2.1 Economy and Environment:.....	30
4.2.2 Society and Politics:.....	30
<b>Chapter 5: Discussion.....</b>	<b>30</b>
<b>Chapter 6: Conclusion and Recommendation.....</b>	<b>30</b>
6.2 Conclusion:.....	30
6.2 Future Work and Recommendation:.....	31
<b>References:.....</b>	<b>31</b>

## Table of Figures

Figure 1:Application logo.....	17
Figure 2: Sign in.....	17
Figure 3: Sign up.....	17
Figure 5:Forgot password.....	17
Figure 6: User main page (poll topics).....	18
Figure 7: Candidates screen.....	18
Figure 8: Candidate campaign.....	18
Figure 9: Candidate profile.....	19
Figure 10: Voting.....	19
Figure 11: Voting done.....	19
Figure 12: Candidate home page.....	20
Figure 13: Candidate notifications button.....	20
Figure 14: Showing results.....	20
Figure 15: Web login page.....	21
Figure 16: Admin home page.....	21
Figure 17: Admins management.....	22
Figure 18: Members management.....	22
Figure 19: Candidates management.....	23
Figure 20: Poll topics management.....	23
Figure 21.....	24
Figure 22.....	24
Figure 23: Cities management.....	25
Figure 24: Specializations management.....	25
Figure 25.....	26
Figure 26.....	26
Figure 27: Candidate home page.....	27
Figure 28: Candidate edit profile page.....	27
Figure 29: Poll topics page.....	28
Figure 30.....	28
Figure 31.....	29

## Abstract

The main idea of the online voting system is to use modern technology to make voting easier, safer and organized with less cost. Where people can vote online from their computers or phones.

The aim of the project is having a voting system that's up to date with today's technology and making voting accessible to more people, thus increasing the percentage of voters.

This project stands out because it has special features like a simple and easy-to-use platform that has multiple voting subjects, and a way to keep track of all the votes to make sure everything is fair.

The project is a web and mobile application for three levels: users, admins and candidates. The users can vote for their chosen candidates and they are not able to change their voting.

There will be advertising, filtering and notification systems that will notify candidates about any new vote.

The design will be full responsive screens and provide multiple languages for providing better user experience for all types of users.

# Chapter 1: Introduction

## 1.1 Statement of the Problem:

With the development of life, there are many mobile and web applications that serve different aspects of life such as education, community, services and so on. E-VOTE is a part of services applications.

Many people, especially old and disabled people find it difficult to go to the polling stations to vote.

## 1.2 Project Objectives:

The main goal of the project is to increase the percentage of voters, save time and effort by making the process online.

The project consists of two parts: the first is an Android app for voters and candidates. It allows users to view the campaign and profile for each candidate for several voting subjects, then choose the preferred candidate to vote.

The second is a web application for the admin and the candidate, that allows the admin to link the candidates with the voting subjects that they want to be nominated in, and all other admin permissions, also it allows the candidate to edit his profile and the campaign, get notifications and view the graph of voters.

## 1.3 Significance:

The significance of the online voting system lies in its commitment to get modern technology to enhance the voting process.

By enabling people to cast their votes conveniently from their phones, the system aims to make voting easier, safer, and more organized while minimizing costs. The project's primary goal is to increase access to voting and potentially increase overall votes by making it online.

## 1.4 Organization:

Chapter 1: Introduction to the problem, the objectives and significance.

Chapter 2 : Theoretical background and previous work.

Chapter 3 : Methodology.

Chapter 4 : Results.

Chapter 5 : Discussion.

Chapter 6 : Conclusions and Recommendations.

## Chapter 2: Theoretical Background and Previous Work

### 2.1 Theoretical Background:

In this project, I have used php and dart programming languages that I've spent a lot of time learning, because I didn't take any mobile programming course before in college.

### 2.1 Previous Work:

There are some apps that are published on google and apple store that have inspired me to get some functionalities and ideas in my project, like VoteMeApp and Picky voting app.

## Chapter 3: Methodology

### 3.1 Standards and Specifications (Codes):

This project is based on Frontend and Backend development.

In the Frontend I have used Html and Flutter frameworks, In the Backend, I have used php in the xampp database.

#### 3.1.1 Tools :

- Visual Studio Code
- Android Studio
- Xampp
- Postman

#### 3.2.1 Screen Adaption :

This application is capable of rendering the interface to different screen sizes. Along with automated font, size and image rendering modification.

#### 3.2.1 Easy to use:

On each page there is a set of icons and links that make it easy for the user to quickly access all pages and return to the previous one.

# Chapter 4: Results

## 4.1.1 Database Structure:

The screenshot shows the phpMyAdmin interface for the 'e\_vote' database. The left sidebar displays a tree view of the database structure, including tables like 'admin', 'adv', 'candidate', 'events', 'link\_event\_user', 'link\_polltopic\_candidate', 'link\_polltopic\_candidate\_uservoted', 'member', 'poll\_topic', 'residence\_region', 'restore\_password', 'specialties', and 'users'. The main panel shows a table structure view with the following data:

Table	Action	Rows	Type	Collation	Size	Overhead
admin	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	1	InnoDB	utf8_general_ci	16.0 KIB	-
adv	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	2	InnoDB	utf8_general_ci	16.0 KIB	-
candidate	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	8	InnoDB	utf8_general_ci	16.0 KIB	-
events	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	11	InnoDB	utf8_general_ci	16.0 KIB	-
link_event_user	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	5	InnoDB	utf8_general_ci	16.0 KIB	-
link_polltopic_candidate	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	15	InnoDB	utf8_general_ci	16.0 KIB	-
link_polltopic_candidate_uservoted	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	20	InnoDB	utf8_general_ci	16.0 KIB	-
member	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	6	InnoDB	utf8_general_ci	16.0 KIB	-
poll_topic	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	4	InnoDB	utf8_general_ci	16.0 KIB	-
residence_region	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	6	InnoDB	utf8_general_ci	16.0 KIB	-
restore_password	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	12	InnoDB	utf8_general_ci	16.0 KIB	-
specialties	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	6	InnoDB	utf8_general_ci	16.0 KIB	-
users	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	15	InnoDB	utf8_general_ci	32.0 KIB	-
<b>13 tables</b>	<b>Sum</b>	<b>111</b>	<b>InnoDB</b>	<b>utf8mb4_general_ci</b>	<b>224.0 KIB</b>	<b>0 B</b>

E\_vote database structure

The screenshot shows the phpMyAdmin interface for the 'admin' table in the 'e\_vote' database. The table structure is displayed as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	[Change] [Drop] [More]
2	name	varchar(100)	utf8_general_ci		Yes	NULL			[Change] [Drop] [More]
3	identification_number	varchar(100)	utf8_general_ci		Yes	NULL			[Change] [Drop] [More]
4	user_id	int(11)			Yes	NULL			[Change] [Drop] [More]
5	is_canceled	tinyint(4)			No	0			[Change] [Drop] [More]

Below the table structure, there are options to add or remove columns, and a section for indexes. The 'PRIMARY' index is shown with the following details:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
[Edit] [Rename] [Drop]	PRIMARY	BTREE	Yes	No	id	0	A	No	

Admin table structure

Server: 127.0.0.1 » Database: e\_vote » Table: adv

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	insert_time	datetime			Yes	NULL			Change Drop More
3	name	varchar(100)	utf8_general_ci		Yes	NULL			Change Drop More
4	period	int(11)			Yes	NULL	مدة الاعلان بالاسابيع		Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	1	A	No	

Adv table structure

Server: 127.0.0.1 » Database: e\_vote » Table: candidate

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	insert_time	datetime			No	current_timestamp()			Change Drop More
3	fname	varchar(50)	utf8_general_ci		Yes	NULL			Change Drop More
4	lname	varchar(50)	utf8_general_ci		Yes	NULL			Change Drop More
5	phone	varchar(15)	utf8_general_ci		Yes	NULL			Change Drop More
6	gender_id	int(11)	utf8_general_ci		Yes	NULL	1.male 2.female		Change Drop More
7	birthdate	date			Yes	NULL			Change Drop More
8	bio	text	utf8_general_ci		Yes	NULL	السيرة الذاتية		Change Drop More
9	img	varchar(100)	utf8_general_ci		Yes	NULL			Change Drop More
10	residence_region_id	int(11)			Yes	NULL			Change Drop More
11	specialty_id	int(11)			Yes	NULL			Change Drop More
12	activation	int(11)			Yes	1	1.active 2.deactive		Change Drop More
13	user_id	int(11)			Yes	NULL			Change Drop More
14	is_canceled	tinyint(4)			Yes	0			Change Drop More

Candidate table structure

phpMyAdmin interface showing the table structure for the 'events' table. The table has the following columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	create_by	int(11)			Yes	NULL	user_id		Change Drop More
3	title	text	utf8_general_ci		Yes	NULL			Change Drop More
4	date	date			Yes	NULL			Change Drop More
5	time	time			Yes	NULL			Change Drop More
6	max_allowed_number	varchar(100)	utf8_general_ci		Yes	NULL			Change Drop More

The 'id' column is the primary key. The interface also shows options for adding columns, indexes, and other table operations.

Events table structure

phpMyAdmin interface showing the table structure for the 'link\_event\_user' table. The table has the following columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	event_id	int(11)			Yes	NULL			Change Drop More
3	user_id	int(11)			Yes	NULL			Change Drop More

The 'id' column is the primary key. The interface also shows options for adding columns, indexes, and other table operations. A warning message indicates that no partitioning is defined for this table.

Link\_event\_user table structure

The screenshot shows the phpMyAdmin interface for the 'link\_polltopic\_candidate' table. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	poll_topic_id	int(11)			Yes	NULL			Change Drop More
3	candidate_id	int(11)			Yes	NULL			Change Drop More
4	election_program	text	utf8_general_ci		Yes	NULL			Change Drop More
5	notification_num	int(11)			No	0			Change Drop More

The 'Indexes' section shows a primary index on the 'id' column:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	13	A	No	

Link\_polltopic\_candidate table structure

The screenshot shows the phpMyAdmin interface for the 'link\_polltopic\_candidate\_uservoted' table. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	poll_topic_id	int(11)			Yes	NULL			Change Drop More
3	candidate_id	int(11)			Yes	NULL			Change Drop More
4	user_id	int(11)			Yes	NULL			Change Drop More

The 'Indexes' section shows a primary index on the 'id' column:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	20	A	No	

Link\_polltopic\_candidate\_uservoted table structure

Member table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	insert_time	datetime			No	current_timestamp()			Change Drop More
3	fname	varchar(50)	utf8_general_ci		Yes	NULL			Change Drop More
4	lname	varchar(50)	utf8_general_ci		Yes	NULL			Change Drop More
5	phone	varchar(15)	utf8_general_ci		Yes	NULL			Change Drop More
6	gender_id	int(11)			Yes	NULL	1 male 2 female		Change Drop More
7	birthdate	date			Yes	NULL			Change Drop More
8	bio	text	utf8_general_ci		Yes	NULL	البيوة الذاتية		Change Drop More
9	img	varchar(100)	utf8_general_ci		Yes	NULL			Change Drop More
10	residence_region_id	int(11)			Yes	NULL			Change Drop More
11	specialty_id	int(11)			Yes	NULL			Change Drop More
12	activation	int(11)			Yes	1	1 active 2 deactive		Change Drop More
13	user_id	int(11)			Yes	NULL			Change Drop More
14	is_canceled	tinyint(4)			Yes	0			Change Drop More

Member table structure

Poll\_topic table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	insert_time	datetime			Yes	NULL			Change Drop More
3	name	varchar(100)	utf8_general_ci		Yes	NULL			Change Drop More
4	period	int(11)			Yes	NULL	مدة الاستخدام والساعات		Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	4	A	No	

Create an index on 1 columns Go

Poll\_topic table structure

The screenshot shows the phpMyAdmin interface for the 'residence\_region' table. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	name	varchar(100)	utf8_general_ci		Yes	NULL			Change Drop More

The 'Indexes' section shows a primary index on the 'id' column:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	6	A	No	

Residence\_region table structure

The screenshot shows the phpMyAdmin interface for the 'restore\_password' table. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	insert_time	datetime			No	current_timestamp()			Change Drop More
3	user_id	int(11)			Yes	NULL			Change Drop More
4	user_level_id	int(11)			Yes	NULL			Change Drop More
5	is_done	tinyint(1)			No	0			Change Drop More

The 'Indexes' section shows a primary index on the 'id' column:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	12	A	No	

Restore\_password table structure

Server: 127.0.0.1 » Database: e\_vote » Table: specialties

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	name	varchar(100)	utf8_general_ci		Yes	NULL			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	6	A	No	

Partitions

No partitioning defined!

Specialities table structure

Server: 127.0.0.1 » Database: e\_vote » Table: users

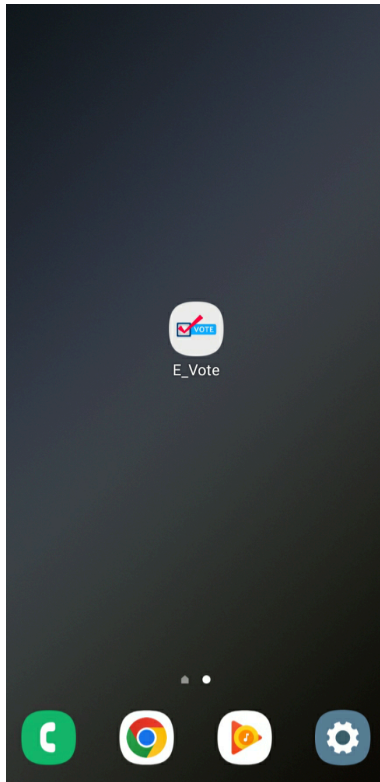
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	insert_time	datetime			No	current_timestamp()			Change Drop More
3	loginname	varchar(100)	utf8_general_ci		Yes	NULL			Change Drop More
4	password	varchar(200)	utf8_general_ci		Yes	NULL			Change Drop More
5	user_level_id	int(11)			Yes	NULL	1 admin 2 candidate 3 member		Change Drop More
6	is_canceled	tinyint(1)			No	0			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	id	15	A	No	
Edit Rename Drop	loginname	BTREE	Yes	No	loginname	15	A	Yes	

Users table structure

## 4.1.2 User Application:



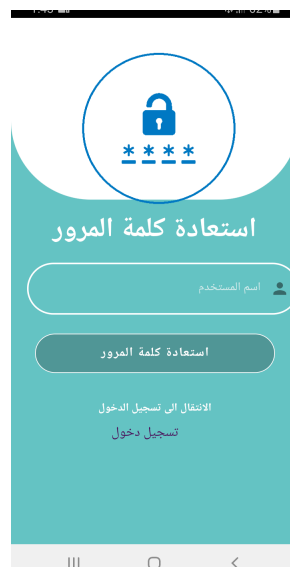
**Figure 1: Application logo**



**Figure 2: Sign in**



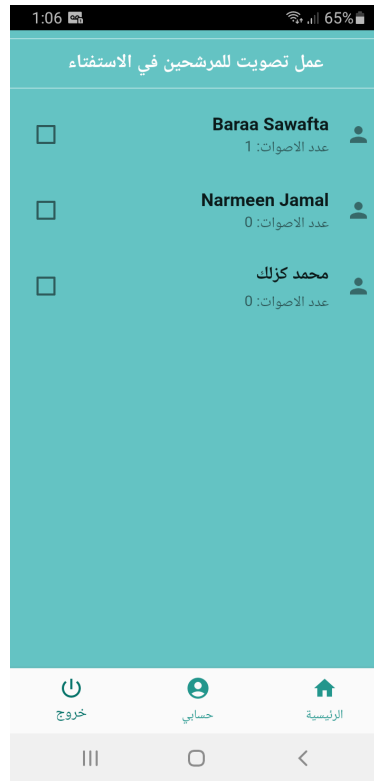
**Figure 3: Sign up**



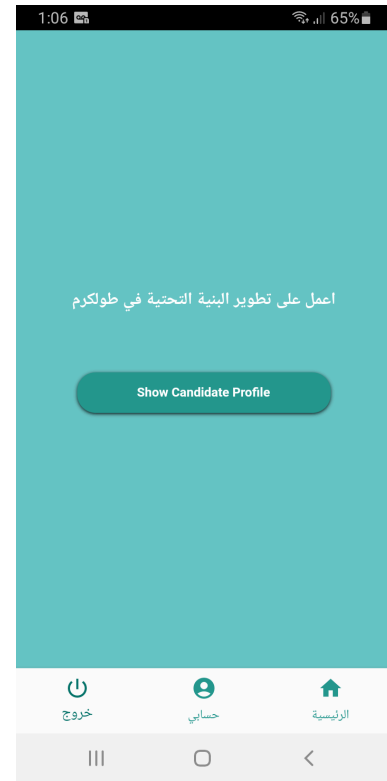
**Figure 5: Forgot password**



**Figure 6: User main page (poll topics)**



**Figure 7: Candidates screen**



**Figure 8: Candidate campaign**

Figure 5 represents the candidates where the user can vote for them.

Figure 6 represents the candidate campaign and profile after long press on the candidate name. If a green mark appears, that means the voting is finished for that topic.



Figure 9: Candidate profile

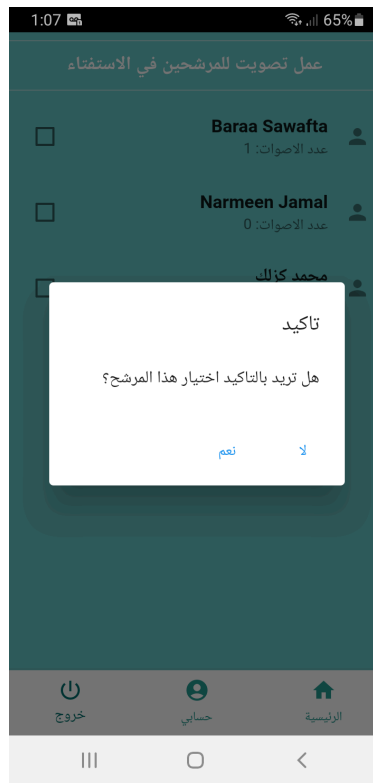


Figure 10: Voting

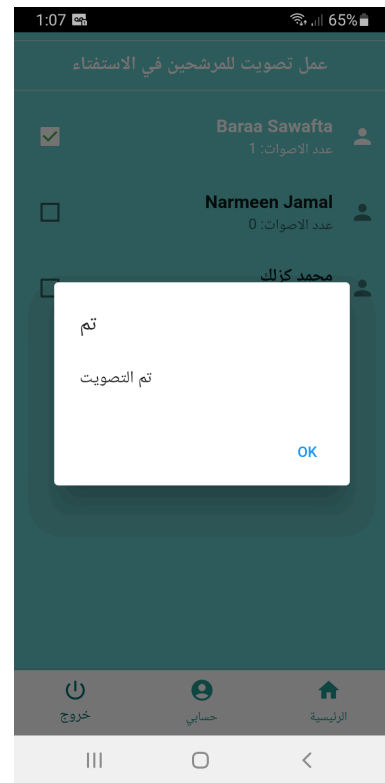


Figure 11: Voting done



Figure 12: Candidate home page



Figure 13: Candidate notifications button

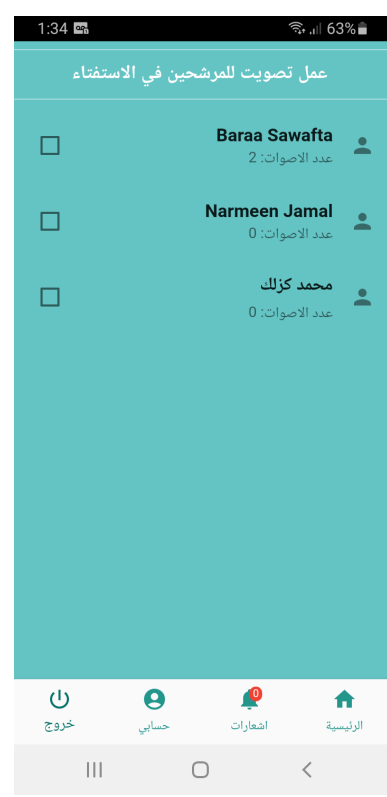


Figure 14: Showing results

Figure 12 represents the vote results after clicking on the notification.

### 4.1.3 Web Application:

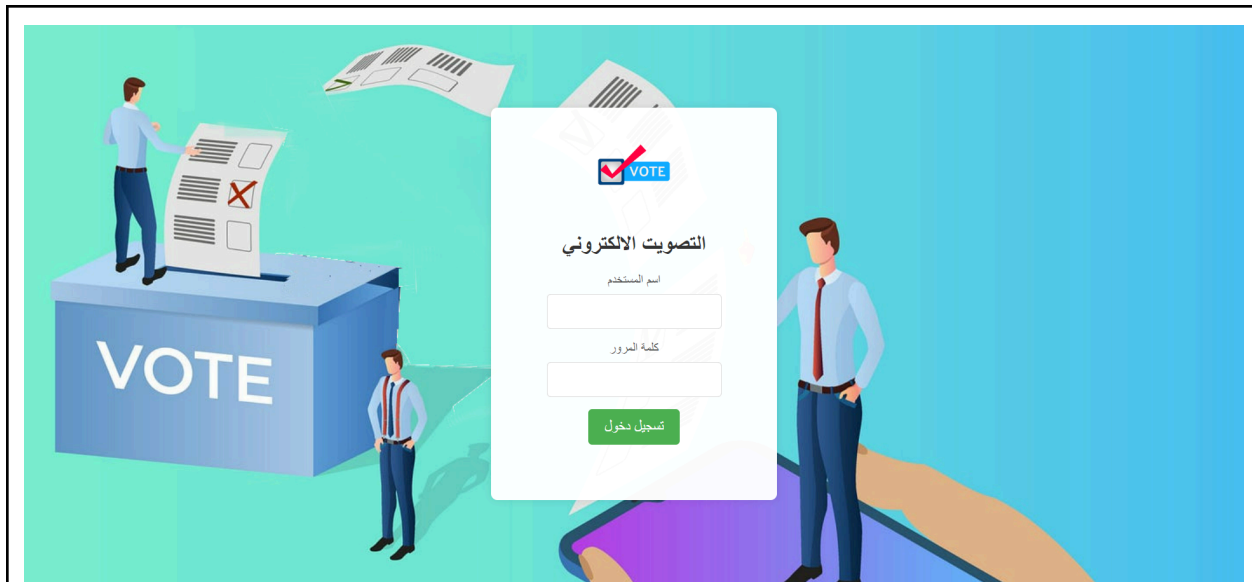


Figure 15: Web login page

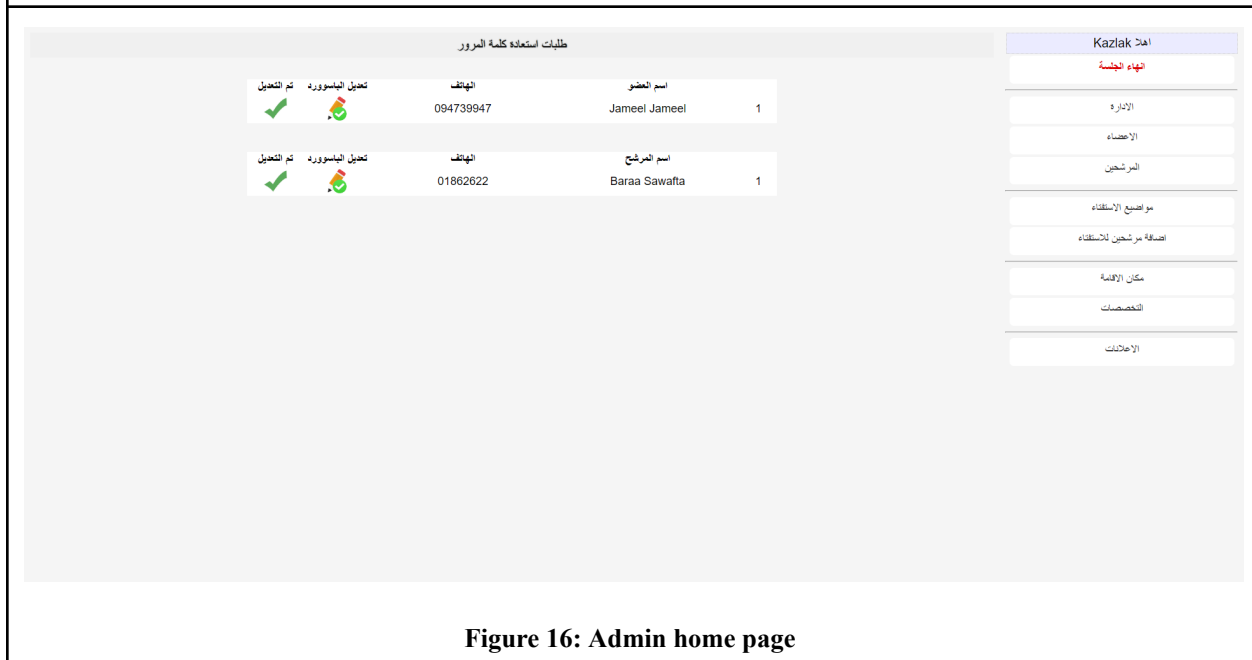


Figure 16: Admin home page

Figure 15 represents the requests to reset password for users and candidates.

التحكم بالإداريين				Kazlak	
				إضافة مدير	
تعديل حذف	رقم الهوية	الإسم		1	
✖ ✎	1	Kazlak		1	

Figure 17: Admins management

سجل الأعضاء										Kazlak	
										إضافة مدير	
حذف	تعديل	حالة الحساب	التخصص	مكان الإقامة	تاريخ الميلاد	الجنس	نبذة	الإسم	الصورة		
✖ ✎	✎	فعال	ادارة اصال	الختيل	2000-01-13	M		Jameel Jameel		1	
✖ ✎	✎	فعال	قانون	نابلس		M		Sameer Sameer		2	
✖ ✎	✎	فعال	هندسة مدنية	نابلس		F		Farah Farah		3	
✖ ✎	✎	فعال	هندسة حاسوب	رام الله		F		Yara Yara		4	
✖ ✎	✎	فعال	هندسة مدنية	نابلس		M		Ahmad Salman		5	
✖ ✎	✎	فعال	هندسة حاسوب	نابلس		M		Majed Ahmad		6	

Figure 18: Members management

سجل المرشحين										اهد Kazlak	
اضافة مرشح										تهاء الجلسة	
حذف	تعديل	حالة الحساب	التخصص	مكان الإقامة	تاريخ الميلاد	الجنس	نبذة	الإسم	الصورة	الترارة	الإعضاء
✖	✍	فعال	هندسة حاسوب	بيت لحم		M	اعمل على تطوير مدينة طولكرم , خاصة البنية التحتية	Baraa Sawafta		1	المرشحين
✖	✍	فعال	تصميم داخلي	جنين		F		Noor Sami		2	موافق الاستفتاء
✖	✍	فعال	طب	طولكرم		F		Samah Tayseer		3	اضافة مرشحين للاستفتاء
✖	✍	فعال	قانون	طولكرم		M		Jamal Ahmad		4	مكان الإقامة
✖	✍	فعال	هندسة مدنية	نابلس	1997-02-04	M	خرج هندسة مدنية اسمي لاستبدال خريفي في التطوير.	Nader Sayed		5	التخصصات
✖	✍	فعال	هندسة مدنية	نابلس	1986-12-17	M	رجل اعمال.	محمد كزلك		6	الإعلانات
✖	✍	فعال	هندسة مدنية	رام الله	2000-11-04	F		Narmeen Jamal		7	
✖	✍	فعال	هندسة حاسوب	رام الله	2000-08-02	M	welcome	يهل سلمان		8	

Figure 19: Candidates management

مواضيع الاستفتاء						اهد Kazlak	
اضافة مواضيع استفتاء						تهاء الجلسة	
حذف	تعديل	تقرير الاصوات	مدة الاستفتاء (ساعات)	وقت الاشاء	اسم مواضيع الاستفتاء	الترارة	الإعضاء
✖	✍	الاجل	83	2024-01-28 21:57	التحليلات رئيس بلدية طولكرم	2	المرشحين
✖	✍	الاجل	33	2024-01-28 21:54	التحليلات رئيس بلدية نابلس	3	موافق الاستفتاء
✖	✍	الاجل	2147483647	2023-11-08 10:11	التحليلات مجلس اتحاد الطلبة /جامعة البوليتكنك	4	اضافة مرشحين للاستفتاء
✖	✍	الاجل	144	2023-11-08 10:11	التحليلات مجلس اتحاد الطلبة /جامعة النجاح	5	مكان الإقامة

Figure 20: Poll topics management

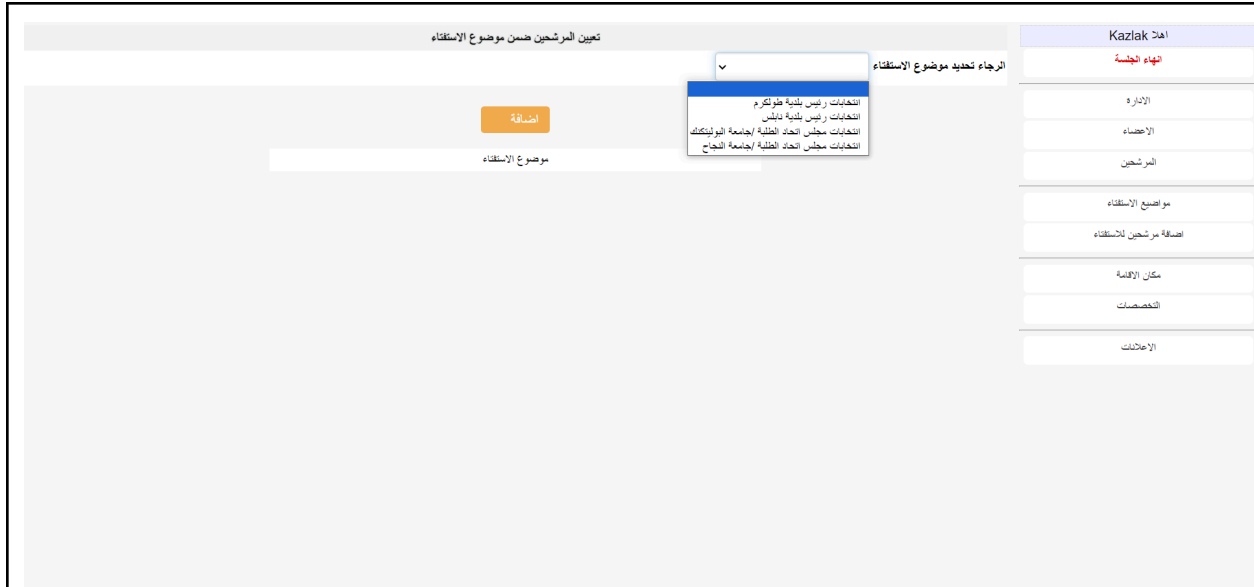


Figure 21



Figure 22

Figure 21 and 22 represents how admin can add candidates to the poll topics.

مكان الإقامة

إضافة مكان الإقامة

حذف	تعديل	اسم مكان الإقامة	رقم
✖	✎	بيت لجر	1
✖	✎	الحليل	2
✖	✎	طو لكرم	3
✖	✎	جنين	4
✖	✎	نابلس	5
✖	✎	رام الله	6

Kazlak أهلا

نهاية الجلسة

- الإدارة
- الأعضاء
- المرشحين
- مواضيع الأسئلة
- إضافة مرشحين للأسئلة
- مكان الإقامة
- التخصصات
- الإعلانات

**Figure 23: Cities management.**

التخصص

إضافة تخصص

حذف	تعديل	اسم التخصص	رقم
✖	✎	الكون	2
✖	✎	تصميم داخلي	3
✖	✎	طب	4
✖	✎	إدارة أعمال	5
✖	✎	هندسة مدنية	6
✖	✎	هندسة حاسوب	7

Kazlak أهلا

نهاية الجلسة

- الإدارة
- الأعضاء
- المرشحين
- مواضيع الأسئلة
- إضافة مرشحين للأسئلة
- مكان الإقامة
- التخصصات
- الإعلانات

**Figure 24: Specializations management.**

الإعلان

[إضافة إعلان](#)

تعديل حذف	مدة الإعلان (ساعات)	وقت الإنشاء	الإعلان	
	33	2024-01-28 22:08	لا تسو التصويت لرئيس بلدية نيليس القديم	2
	33	2024-01-28 22:08	AD AD AD	3

Kazlak أهلا

[نهاية الجلسة](#)

---

[الانارة](#)

[الأعضاء](#)

[المرشحين](#)

---

[مواليدع الإستفتاء](#)

[اضافة مرشحين للإستفتاء](#)

---

[مكان الإقامة](#)

[التخصصات](#)

---

[الإعلانات](#)

Figure 25

الإعلان  
 ساعة  مدة الإعلان

Kazlak أهلا

[نهاية الجلسة](#)

---

[الانارة](#)

[الأعضاء](#)

[المرشحين](#)

---

[مواليدع الإستفتاء](#)

[اضافة مرشحين للإستفتاء](#)

---

[مكان الإقامة](#)

[التخصصات](#)

---

[الإعلانات](#)

Figure 26

Figure 23 and 24 represents how admin can add up to three advertisements.

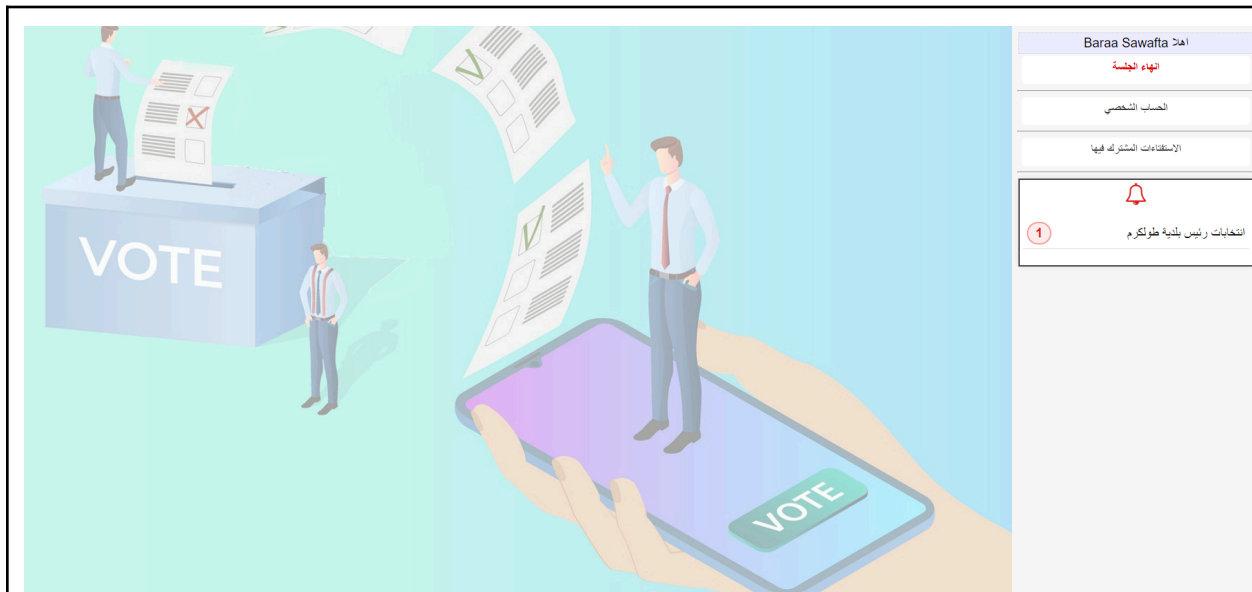


Figure 27: Candidate home page

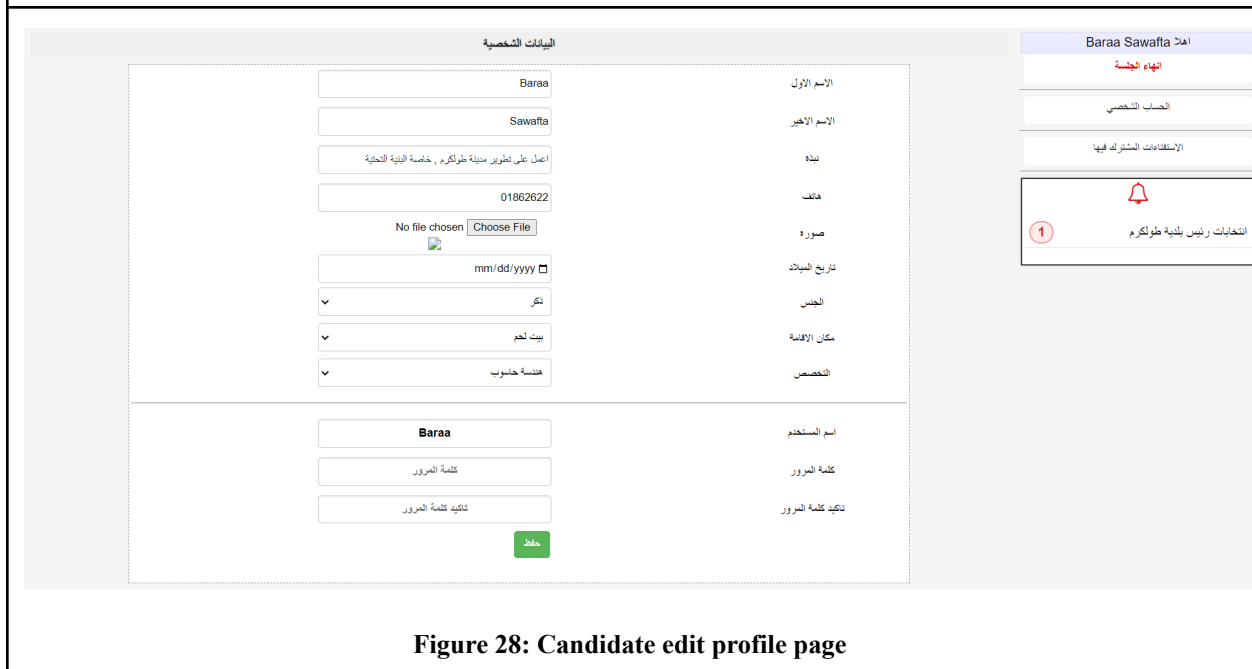


Figure 28: Candidate edit profile page

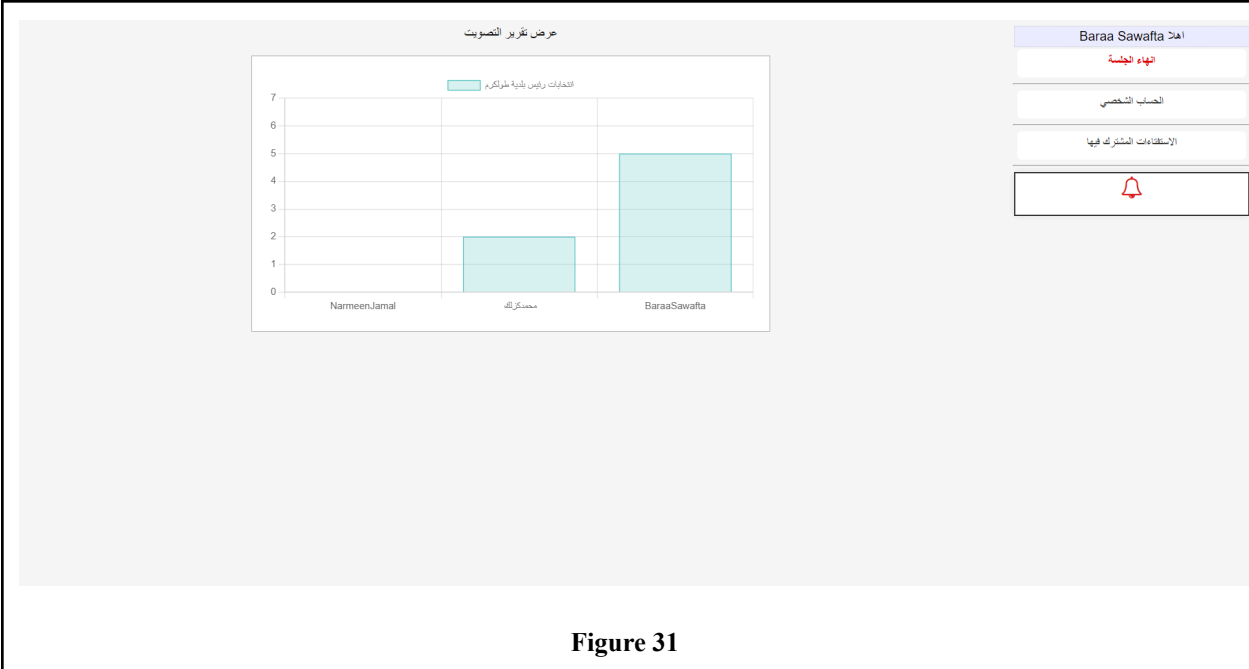


Figure 29: Poll topics page



Figure 30

Figure 30 represents how a candidate can edit his campaign.



**Figure 31**

Figure 31 after clicking on the notification it views the voting report for the topic.

## 4.2 Constraints:

### 4.2.1 Economy and Environment:

As it's a software project, the implementation cost in real life will be low, requiring only servers and hosts as basic requirements.

### 4.2.2 Society and Politics:

One of the main reasons for developing my project is making facilities for elderly and disabled people. And prevent underage and unauthorized people.

## Chapter 5: Discussion

E\_Vote is a mobile application that has provided the basic needs required for the voting subject, and provided the users with a good experience. But still there are a lot of details that need to be handled to resolve voting problems.

I have reached 80% of my goal, by learning, practicing and getting enough experience I can upgrade my project into another level.

## Chapter 6: Conclusion and Recommendation

### 6.1 Conclusion:

E\_Vote is a platform that captures the perspectives and votes of people to leverage the benefits of its features by reducing crowds, costs, and time.

I've gained experience and learned a new programming language that will assist me in the future, either to upgrade my project or to work on other projects.

## 6.2 Future Work and Recommendation:

Since I have worked individually on the project, I didn't cover all aspects of the idea of voting, some features that I'd like to add in future are security, recommendation, authentication and statistics.

This will make the project applicable to important community and government events.

## References:

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