



Our Ref : 500-UiTMPP(PSKK.19/2021)
Date : 23 July 2021

Dr. Jiju A. Mathew
Dean - Planning and Communication & Head
Department of Computer Science
St. Thomas College, (Autonomous) Thrissur
Kerala, India

Dear Dr. Jiju,

RE: APPOINTMENT LETTER AS CONSULTANT TO ORGANISE AND CONDUCT THE E-ELECTION FOR PSSK 2021

We hereby with reference to the discussion between Persatuan Sukan dan Kebajikan Kakitangan (PSKK) Universiti Teknologi MARA(UiTM) very pleased to appoint you as our E-Election Consultant to set up and conduct our E-Election or our online-election for appointing our new Committee Members (Jawatankuasa Persatuan PSKK) during our upcoming Annual General Election(AGM) 2021, which is fixed for 5th August 2021.

2. The Terms and conditions of appointment are as follows:

- i. The expected date of commencement from 1st August to 5th August 2021
- ii. To prepare Programming and relevant architect for conducting the election online
- iii. To Design and Setting the User Interface for casting the votes online
- iv. To complete the system setting according to the timeframe agreed
- v. To prepare the User Guide Animator for user guide
- vi. Honorarium – Consultant fees fixed at USD180.00
- vii. To prepare the Final Result with complete Report for Auditing purposes
- viii. Ensure at all times the data and information shared kept Private and Confidential

3. In the meantime, on behalf of PSSK would like to thank you for your kind acceptance, and readiness to accept this proposal and working relationships.

Yours Sincerely,

MOHD SAIFULNIZAM ABU BAKAR
Chairman



Department of Computer Science
St.Thomas College, (Autonomous) Thrissur, Kerala, India

20 July 2021

To,

**Mr. Mohd Saifulnizam Abu Bakar,
Chairman - PSKK,
University Teknologi MARA,
Malaysia.**

Sub: Consultant - e-Election PSKK 2021 - Regd.

Dear Mr. Mohd Saifulnizam,

This letter is in response to the discussion we had on 18 July 2021 regarding the conduct of the staff elections of University Technology MARA, (UiTM), Malaysia. I am glad to accept the offer and our team will endure our best to deliver an efficient, simple, reliable & cost-effective software, according to the conditions conveyed during the discussion. For your kind information, this product will be developed by Fireflies - the software development team from the Department of Computer Science, St. Thomas College (Autonomous), Thrissur, Kerala, India.

Yours truly,

Dr, Jiju A. Mathew

Dean - Planning and Communication &
Head - Department of Computer Science,
St. Thomas College (Autonomous), Thrissur, Kerala, India.
Phone: +91 - 94961 28082
Email: jijuamathew@stthomas.ac.in



Department of Computer Science
St.Thomas College, (Autonomous) Thrissur, Kerala, India

Invoice No.: FF/CS-STC/UiTM/03/2021

Bill To: Mr. Pengerusi, UiTMPP PSKK.

Item	Rate (USD) / Hr	Hours	Amount (USD)
Honorarium - Consultant	15.25	10	152.5
		Tax (18%)	27.5
	Total (USD)		180.00

Please transfer the amount to:

Account Name : ST THOMAS COLLEGE

Account No. : 12720200007689

Account Type : Current A/c

IFSC Code : FDRL0001272

MICR Code : 680049004

Swift Code : FDRLINBBIBD

Consultant - UiTMPP Election 2021
Dr. Jiju A. Mathew
Dean - Planning and Communication &
Head - Department of Computer Science,
St. Thomas College (Autonomous),
Thrissur, Kerala, India.

Note: This invoice excludes hours worked by Team Fireflies, St.Thomas College (Autonomous), Thrissur, Kerala, India for UiTMPP PSK Election, August 2021

**PEMILIHAN JAWATANKUASA PERSATUAN SUKAN DAN KEBAJIKAN
KAKITANGAN (PSKK) UiTM CAWANGAN PULAU PINANG SESSI 2021/2023**

UiTMPP PSKK Election - 2021

Introduction

Fair elections are essential for sustainable growth of any organisation. It is important as it sets a standard by which every employee is governed - a standard which promotes social stability from within. Another dimension to it is that it provides a channel with which the stakeholders of that organisation can elaborate their broad objectives thus helping it grow further.



The image shows a promotional graphic for the UiTMPP PSKK Election - 2021. It features a laptop and a smartphone displaying the election platform interface. The interface includes the UiTM logo, the text 'Online election platform for Universiti Teknologi MARA (UiTM), Malaysia', and the Fireflies logo at the bottom. The Fireflies logo is associated with the Department of Computer Science at St. Thomas College, (Autonomous) Thrissur, Kerala, India.

Many uncertainties and questions aired whenever the very thought of conducting the election popped up. Questions like “Can elections be held safely without further spreading of the virus?” and “Will incumbents abuse the difficulty of holding elections to extend their mandates?” were asked by the common man; because of which many scheduled elections were postponed. Since the outbreak of the pandemic, at least 78 countries and in-numerous organisations across the globe have decided to postpone elections. Authorities at UiTM were

no different. They kept postponing the elections until they realised that the COVID is going to stay here, at least for couple of years. This is when a clear trend change from postponing towards holding elections came to their thought process. But with the pandemic, the normal mode of election would have invited adverse effects and hence the mode change was proposed — to conduct the election the Online Way. The administration realised that Online Voting System, if conceived properly, is a secured tool that allow its members to cast their vote and allow the administration to publicise the results, in real time. At the core, it must protect the integrity of ones vote by preventing voters from being able to vote multiple times. Further, as a digital platform, it eliminated the need to gather in-person, cast votes using paper, or by any other means. Trust was another aspect to look for. To have a free and fair election, the authorities decided to appoint an international consultant and three internal observers.

The project **UiTMPP PSKK ELECTION - 2021** is an online election platform developed exclusively for the conduct of staff elections of **University Technology MARA, (UiTM), Malaysia**. Having said that it can act as a web-based election platform for conducting online elections in any organisation, ranging from educational institutions to businesses establishments. This application simplifies the election procedure and is fast, reliable and convenient. The major advantage of this product is that it can be customised easily to conduct elections within an organisation. This is a cost-effective mechanism that saves effort and time required to set up a manual election and it requires minimal resources for functioning. This software is developed by **Fireflies** - software development team comprising the students, alumni and faculty members of the Department of Computer Science, St. Thomas College (Autonomous), Thrissur, Kerala, India.

List of Candidates

The six electoral positions and the candidates competing for these posts are:

I. Pengerusi (Chairman - 1 Person)

AHMAD ASRI BIN ABD SAMAT

MOHD SAMSUDIN BIN ABDUL HAMID

II. Timbalan Pengerusi (Vice Chairman - 1 Person)

MOHD SAIFUL EFFENDY BIN MOHD SHUKERI

MOHD SAMSUDIN BIN ABDUL HAMID

III. Setiausaha (Secretary - 1 Person) - NO VOTING

MASRUL FARIHAN BINTI MOHAMAD

IV. Bendahari (Treasurer - 1 Person) – NO VOTING

LESAIRUAMIN BIN LEIAHS

V. Penolong Setiausaha (Assistant Secretary - 1 Person) – NO VOTING

MOHD SAIFUL EFFENDY BIN MOHD SHUKERI

VI. Ahli Jawatankuasa (Committee Members - 5 nos.)

AHMAD KHUZAIRI OMAR BAKHI
AMIR SHAHRUL BIN ISHAK
ANGAYAR KANNI RAMAIAH
HAZWAN BIN HASSAN
MUHAMAD FARID BIN HJ SHUIB
MUHAMAD RASHID BIN MUHAMAD YATIM
MUHAMAD KHUZAIMIE BIN AZUDDIN
NORHAFIDZAH BINTI MAHDZIR
SHAHIRAH BINTI KHAIRUDIN
WAN HASZAINA BINTI WAN ISMAIL

Domain

The web application was hosted at **www.uitm.site**. A total of 17 candidates contested for the possible six positions and 182 voters were eligible to cast their vote.

Observers & Election Consultant:

Election observation is a valuable tool for improving the quality of elections. They help build confidence in the honesty of electoral processes. It can deter manipulation and fraud, or expose such problems if they occur. For fair election, **UiTMPP PSKK ELECTION - 2021** deployed three observers in addition to the Election Consultant Dr. Jiju A. Mathew, Dean - Planning and Communication, St. Thomas College (Autonomous), Thrissur, Kerala, India. Details of the consultant and the observers along with their official mail id are listed below.

Consultant:

Dr. Jiju A. Mathew - Dean - Planning and Communication &
Head, Department of Computer Science,
St. Thomas College (Autonomous), Thrissur, Kerala, India.
jijuamathew@stthomas.ac.in

Observers:

1. MUHAMMAD FIKRI RAMLI, muhammadfikri@uitm.edu.my
2. JAMAL OTHMAN, jamalothman@uitm.edu.my
3. ZAMRI ABD KAHAR, zamri882@uitm.edu.my

Fireflies - Software Development Team

System Architect:

Mr. Abhinand Gokhala - Alumnus, Department of Computer Science,
St. Thomas College (Autonomous), Thrissur

Team Lead:

Mr. Asish Sajeev - Alumnus, Department of Computer Science,
St. Thomas College (Autonomous), Thrissur

Team members:

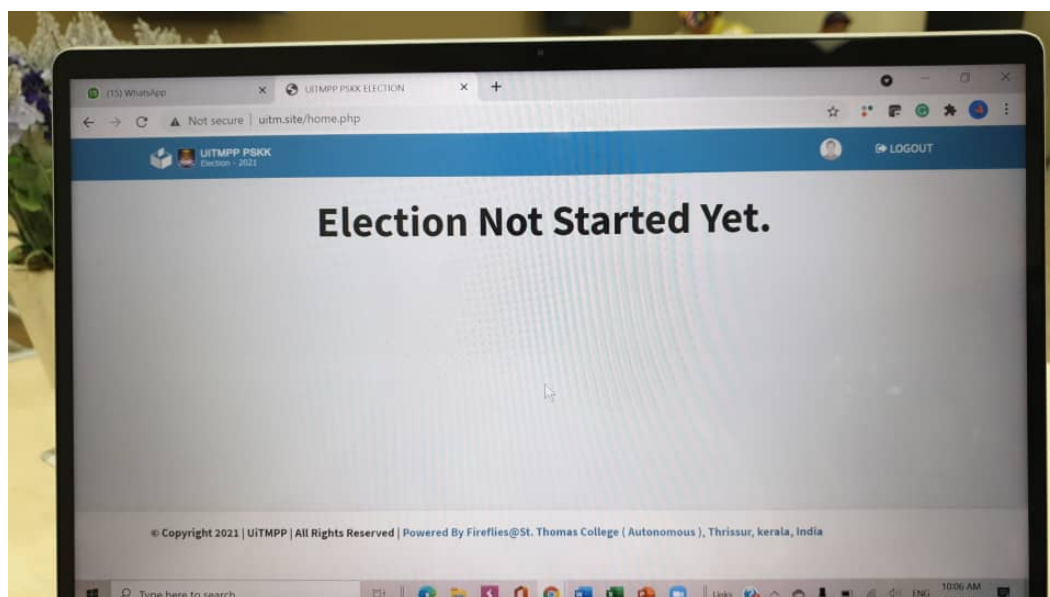
Ms. Lakshmi P. - Final Year Post Graduate Student,
St. Thomas College (Autonomous), Thrissur

Ms. Angaliya Vincent - Final Year Post Graduate Student,
Department of Computer Science,
St. Thomas College (Autonomous), Thrissur

Mr. R. Venujan - Final Year Graduate Student,
Department of Computer Science,
St. Thomas College (Autonomous), Thrissur

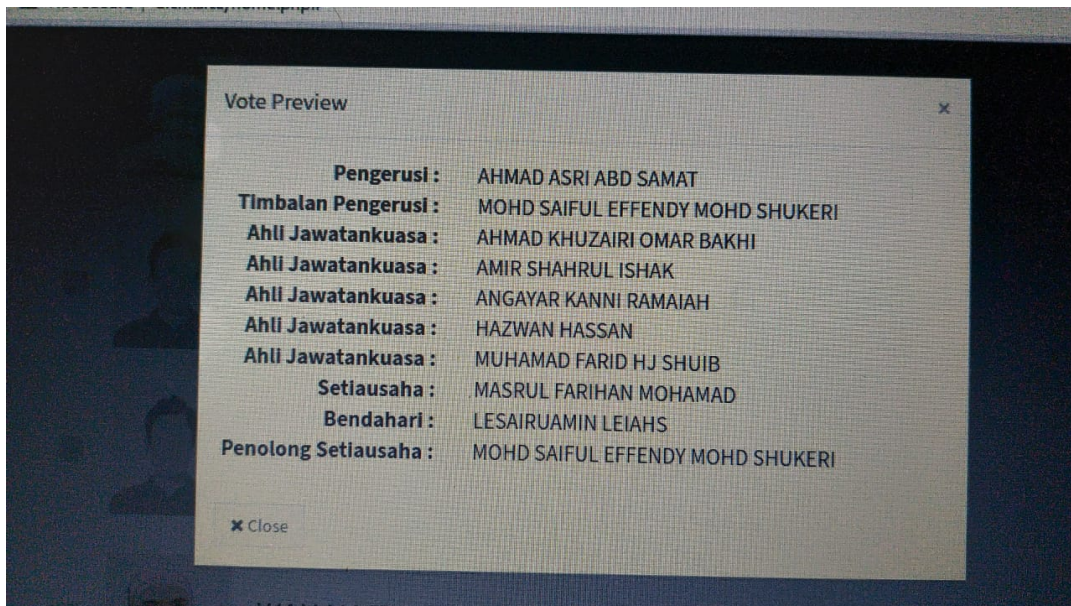
Mr. Devadas K. H. - Final Year Graduate Student,
Department of Computer Science,
St. Thomas College (Autonomous), Thrissur

Capturing the Election on 5 August 2021:

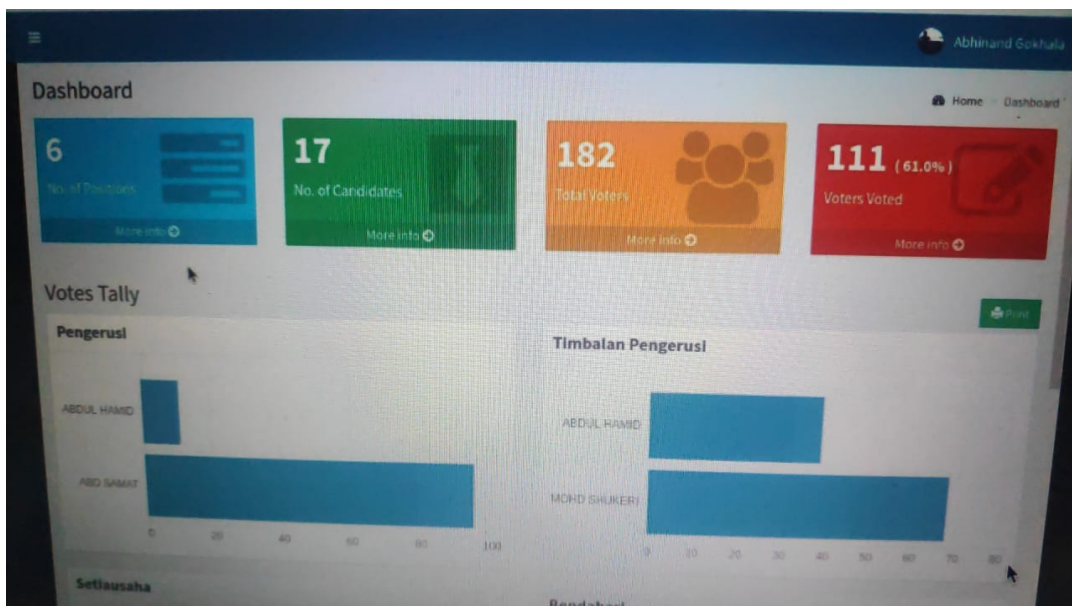




Vote Preview:



The Admin Panel:



User Interfaces

There are three user roles in this software *viz.* admin, observer and the voter.

Administrator:

The admin interface had the following options:

- **Login facility** (Username and password)
- **Dashboard:** View overall election details
- **Voters: Add/import/delete/update details** (First name, Last name, photo)
- **Candidates: Add/delete/update details** (First name, Last name, post, photo)
- **Positions: Add/delete/update details** (Description and maximum vote per position)
- **Display** ballot positions
- **Configuration: Set the title, date and time** of the polling session.
- **Votes: view/reset** the poll.

Observer:

The Observer interface had the following options:

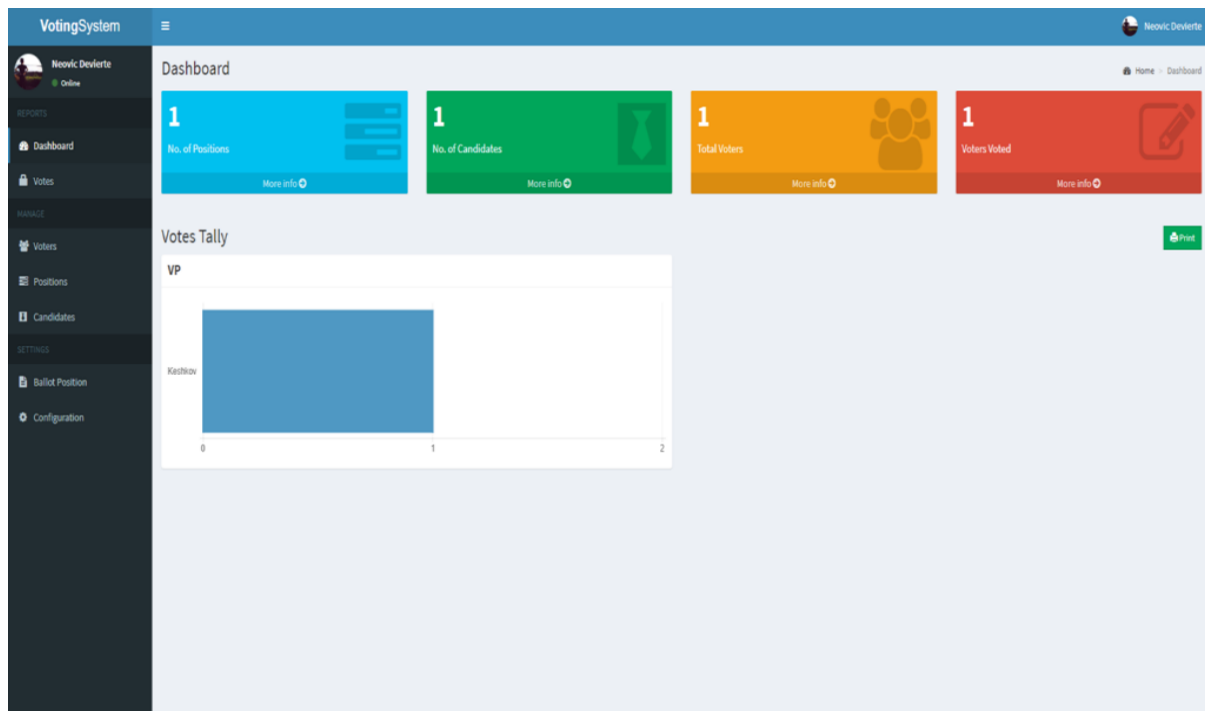
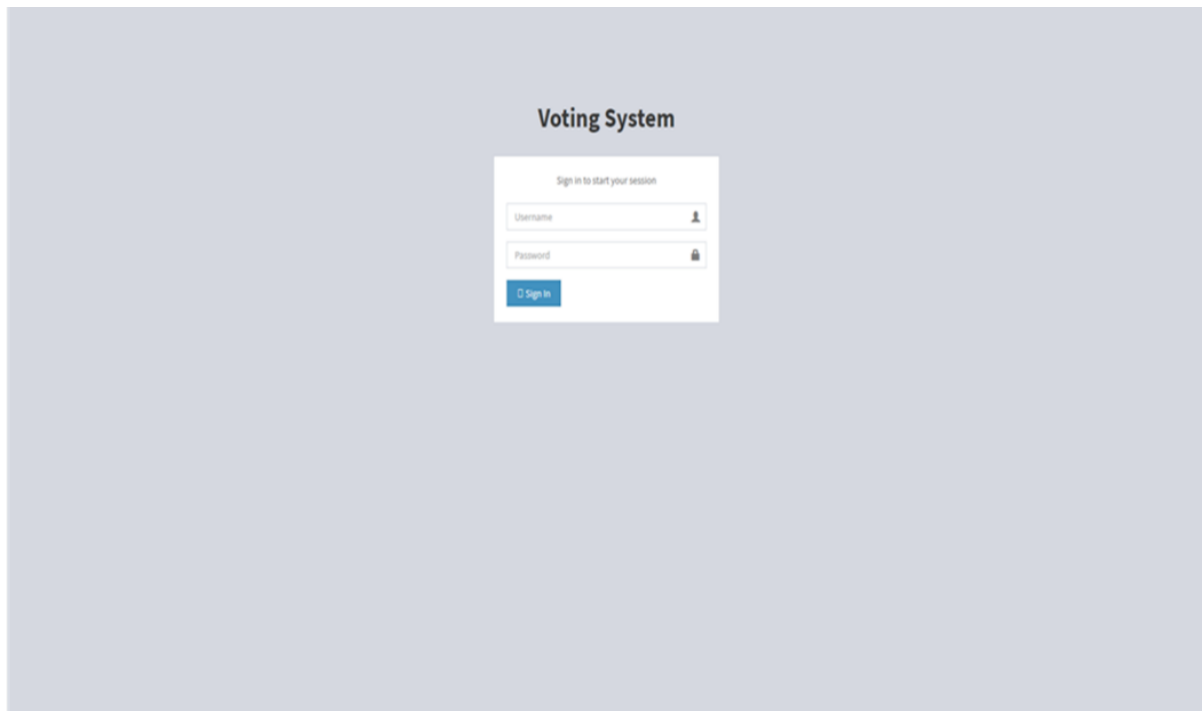
- **Login facility** (Username and password)
- **Dashboard:** View overall election details
- **Voters: View details** (First name, Last name, photo)
- **Candidates: View details** (First name, Last name, post, photo)
- **Positions: View details** (Description and maximum vote per position)
- **Display** ballot positions
- **Configuration: Set the title, date and time** of the polling session.
- **Votes: view/reset** the poll.

The Voter:

The voter interface had:

- **Login facility** (Staff ID and password)
- **One time vote casting facility** during the allotted polling time
- **Votes preview**

The following images are the previews of the admin interface:



VotingSystem | Novic Devierte (Online)

Votes

Show 10 entries | Search:

Position	Candidate	Voter
VP	Dmitri Keshkov	Alexa Novoc

Showing 1 to 1 of 1 entries | Previous 1 Next

VotingSystem | Novic Devierte (Online)

Voters List

+ New

Import Voters

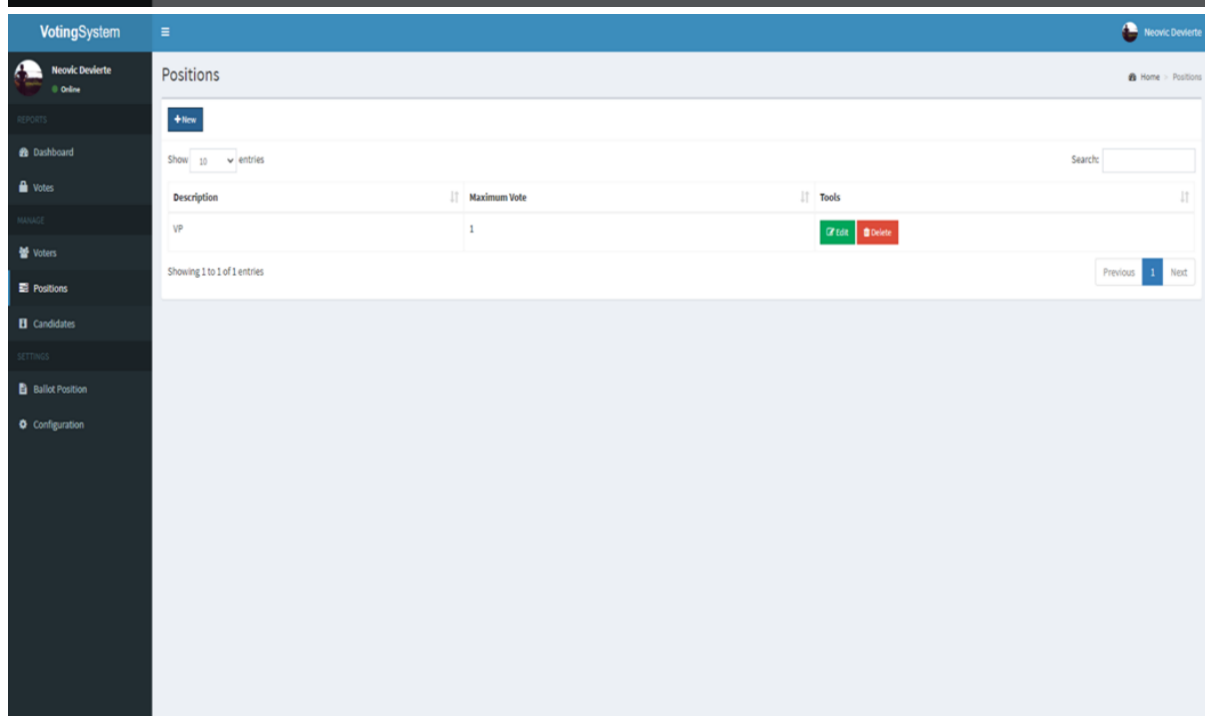
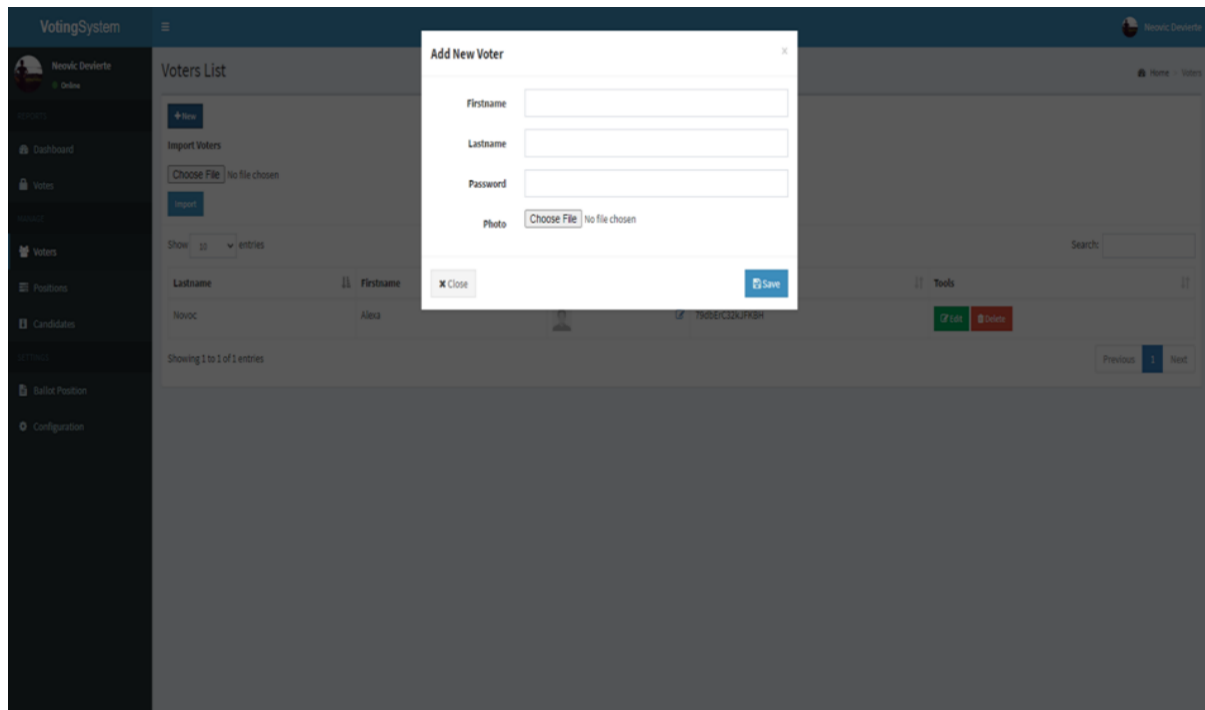
Choose File | No file chosen

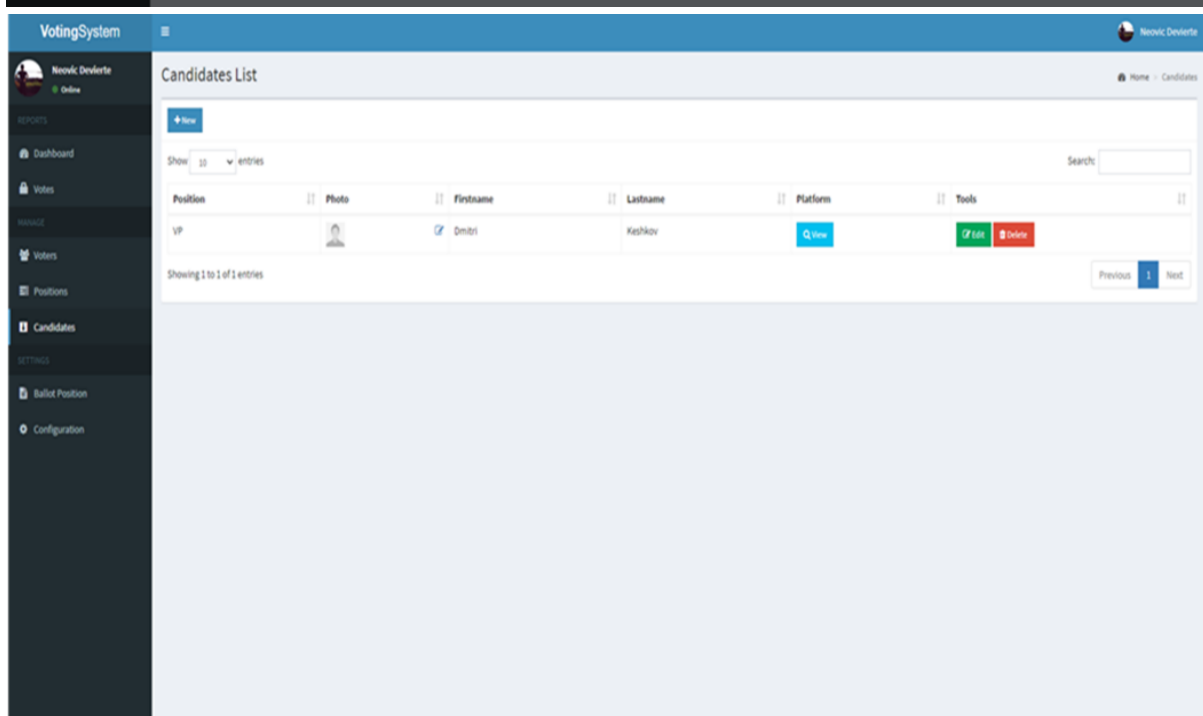
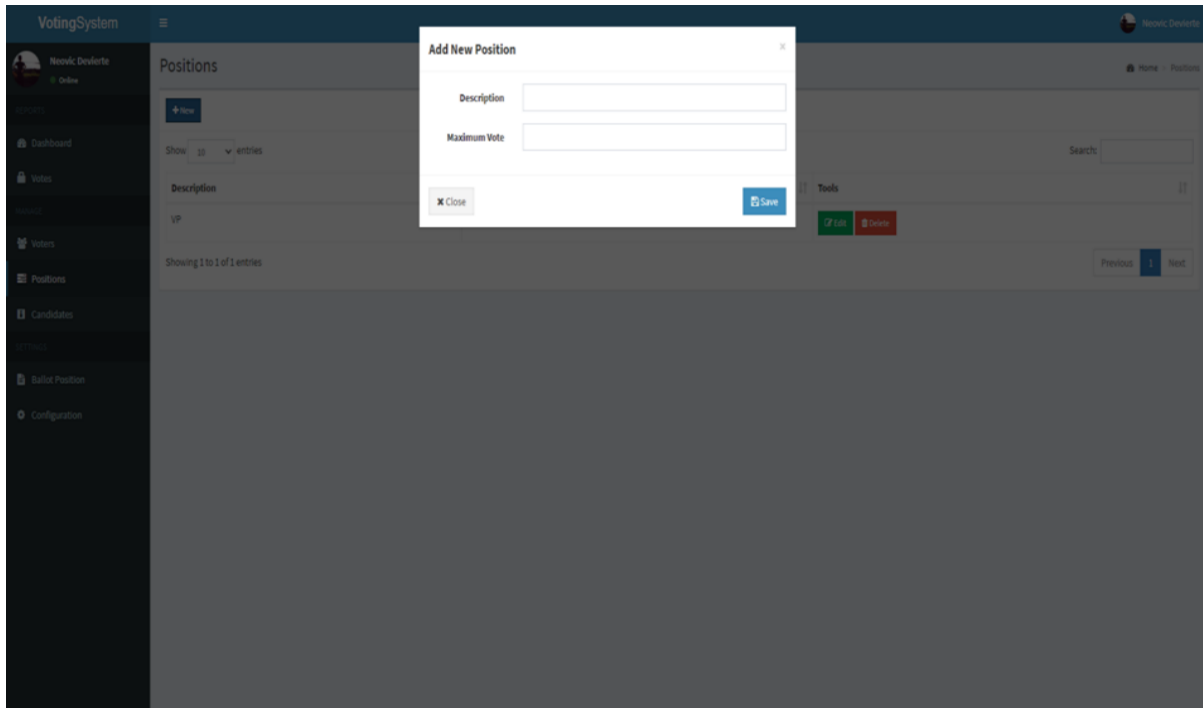
Import

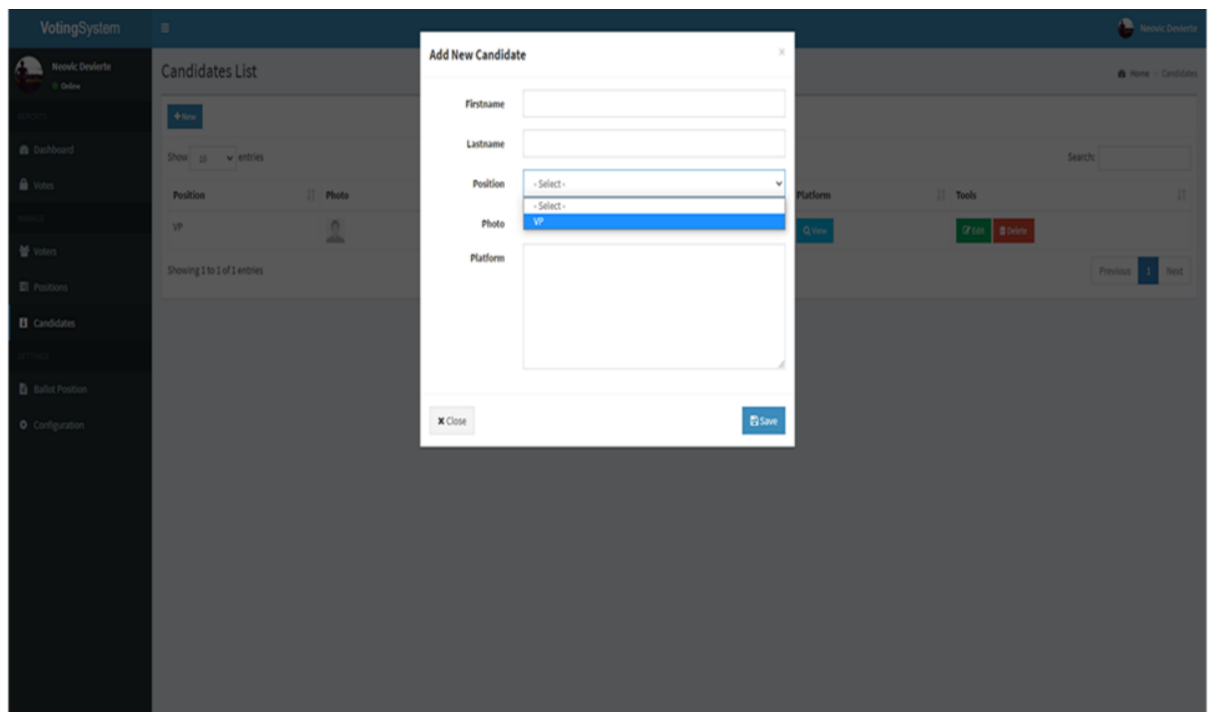
Show 10 entries | Search:

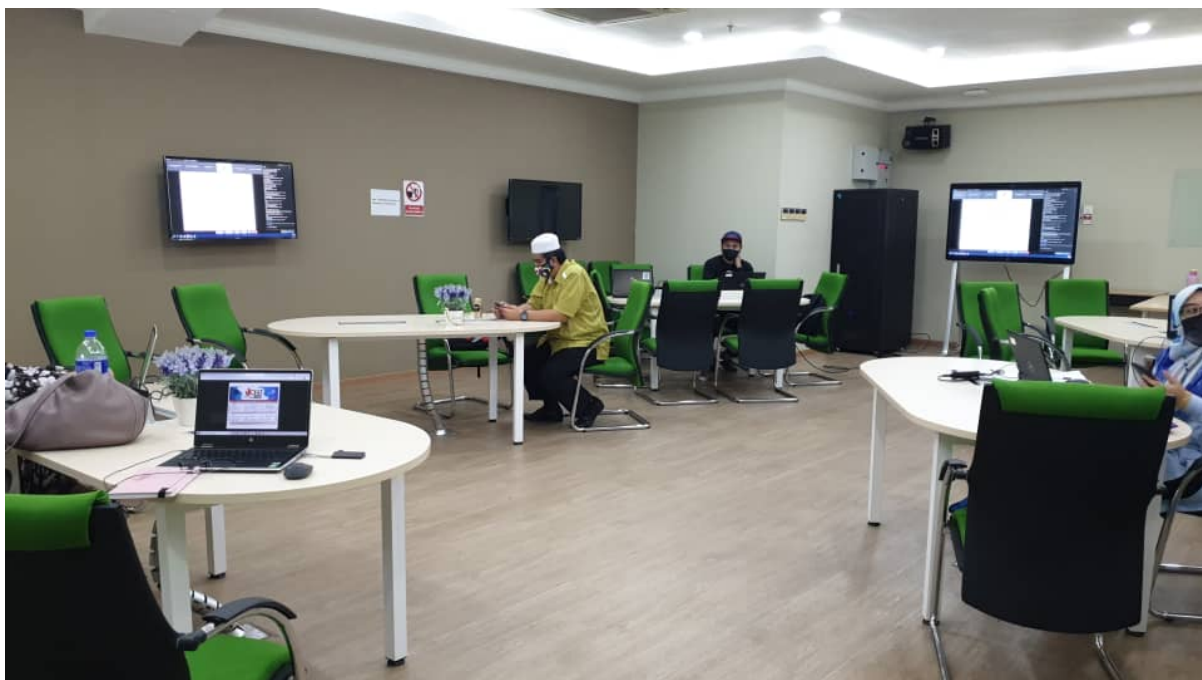
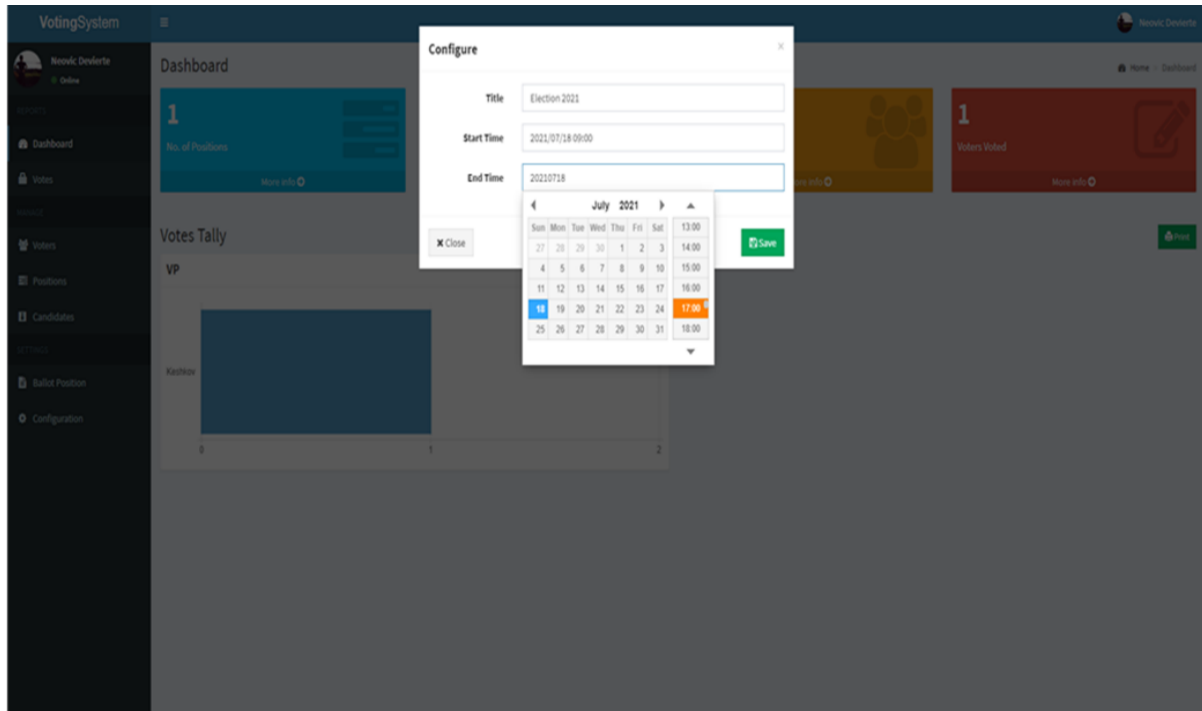
Lastname	Firstname	Photo	Voters ID	Tools
Novoc	Alexa		79dbErc32kJKBH	Edit Delete

Showing 1 to 1 of 1 entries | Previous 1 Next





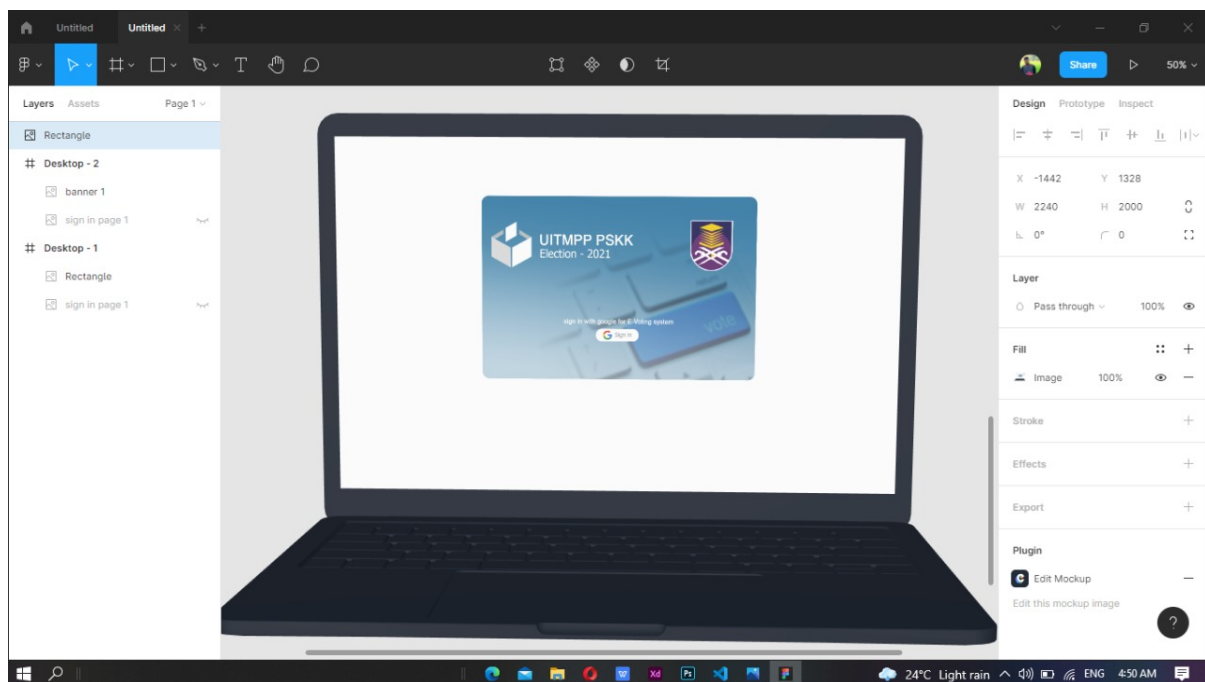




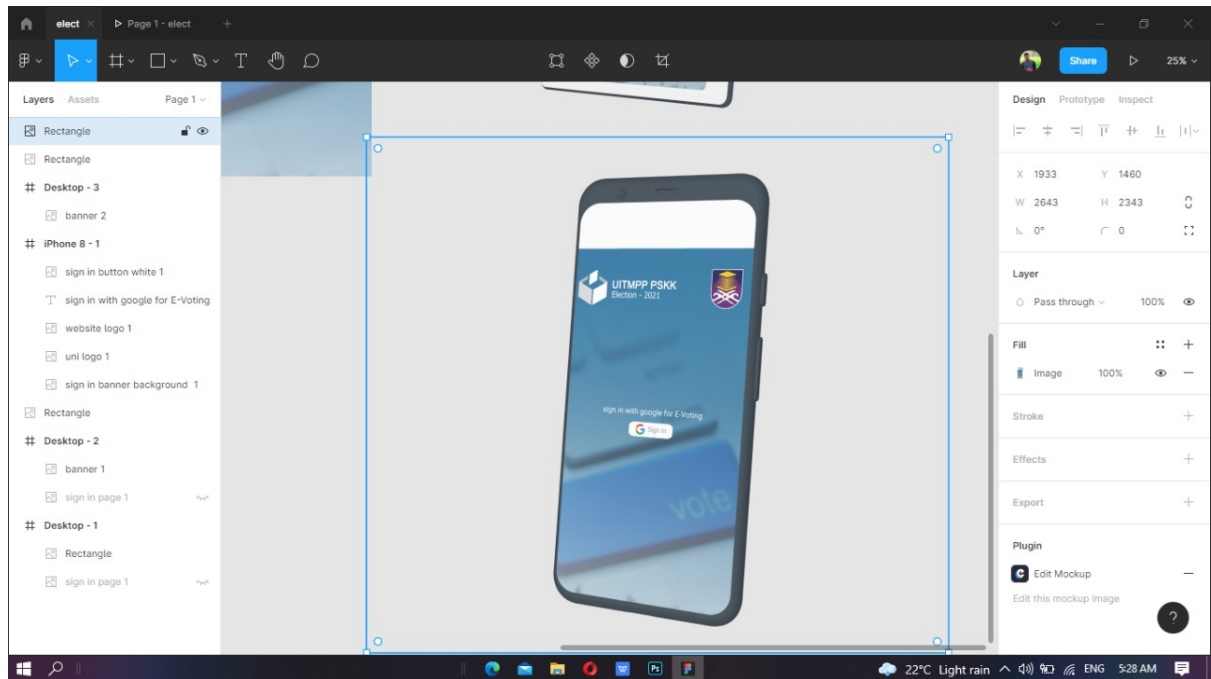
User Interfaces:



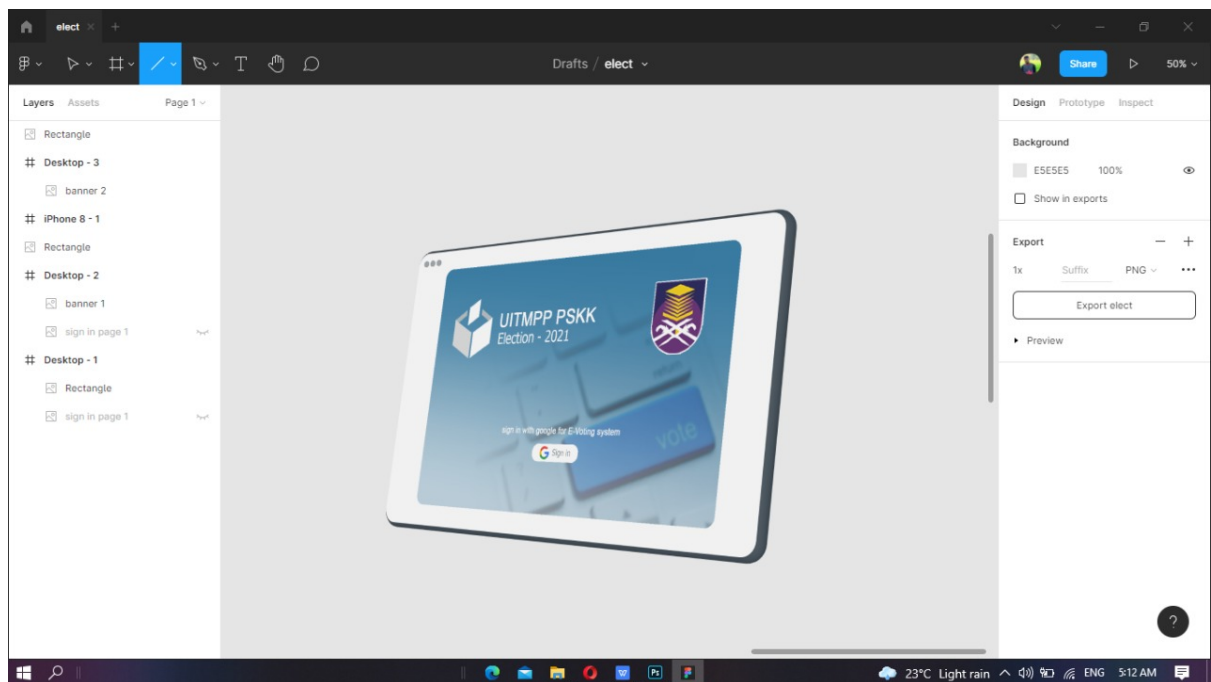
Laptops / Desktops:



Mobile Phones:



Tablets:



Election Results:

Reception and Feedback

UiTMPP PSKK ELECTION 2021

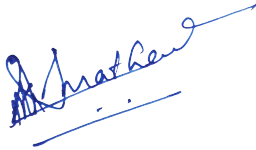
Result Summary

Pengerusi	
Candidates	Votes
AHMAD ASRI ABD SAMAT	103
MOHD SAMSUDIN ABDUL HAMID	11
Timbalan Pengerusi	
Candidates	Votes
MOHD SAIFUL EFFENDY MOHD SHUKERI	72
MOHD SAMSUDIN ABDUL HAMID	42
Setiausaha	
Candidates	Votes
MASRUL FARIHAN MOHAMAD	114
Bendahari	
Candidates	Votes
LESAIRUAMIN LEIAHS	114
Penolong Setiausaha	
Candidates	Votes
MOHD SAIFUL EFFENDY MOHD SHUKERI	114
Ahli Jawatankuasa	
Candidates	Votes
WAN HASZAINA WAN ISMAIL	99
AHMAD KHUZAIRI OMAR BAKHI	92
MUHAMAD KHUZAIMIE AZUDDIN	77
AMIR SHAHRUL ISHAK	65
ANGAYAR KANNI RAMAIAH	58
HAZWAN HASSAN	55
SHAHIRAH KHAIRUDIN	41
MUHAMAD FARID HJ SHUIB	35
MUHAMAD RASHID MUHAMAD YATIM	35
NORHAFIDZAH MAHDZIR	13

Jiju A. Mathew Ph. D.
Consultant - UiTMPP PSKK

Muhammad Fikri Ramli
Observer - UiTMPP PSKK

The application was well received and the fireflies team were successful in conducting the staff elections on 05th August 2021 at 7.30 am (IST) at UiTM. The voters list had 182 entries of which 114 cast their vote. Each voter was offered 20 Malaysian Ringgit to exercise their vote and even then the poll percentage was a mere 62.64. All 114 voters, who wished to cast their vote were able to do so without any technical difficulty. An animated user help video was also supplied to the voters so as to familiarise them with the system.



Jiju A. Mathew Ph. D.

Dean - Planning and Communication &
Head, Department of Computer Science,
St. Thomas College (Autonomous), Thrissur,
Kerala, India.

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UITMPP PSKK
Election - 2021



Online election platform for
**Universiti Teknologi MARA (UiTM),
Malaysia**



powered by



Fireflies

Department of Computer Science
St.Thomas College, (Autonomous) Thrissur
Kerala, India

UITMPP PSKK EL

- You must select in all positions.

Pengerusi

Select only one candidate



AHMAD ASRI ABD SAMAT

