

# Election Canvassing Notification and Candidate Details System using Web and Mobile app

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**Article Info****Volume 82****Page Number: 5523 - 5527****Publication Issue:****January-February 2020****Abstract:**

Election canvassing system is sophisticated well-organized tool which help the voters to find the right candidate to be selected based on the previous contribution and initiatives provided to the society. This system provides timely notifications to all the users with real-time live events associated with the candidate. System also provides candidate election history and detailed profile which give much more effective way for the voters to judge the candidates potential and capabilities. App also give a notification events where the candidate can give his timely notification to the voters on the events there are organizing for social welfare activities. This application has both mobile as well as web app so that the consistent can add the details and notify their followers. The Admin module provides a detailed dashboard some follower and real-time analytics which helps the candidate to present him as a valuable candidate.

**Keywords:** Candidate details, Election canvassing system, Mobile App, Web App

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## I. INTRODUCTION

In existing system, candidate details was not stored in election canvassing system. Data entry consists of inconsistency, large number of on-going staff training cost, system was dependent on the best suitable individuals, sharing information is reduced between customer services, requires more time, costly to regenerate reports and finally needs lack of security. Whereas in proposed system, there must not be more than one copy of particular file in the database. Also saves time and money in a desire that company chose to switch to centralized management system while decreasing down time in order to save money and increase efficiency. How Candidates details are stored in Election Commission System by election canvassing system is sophisticated well-organized tool which help the voters to find the right candidate to be selected based on the previous contribution and initiatives provided to the society [<sup>1</sup>]. This system provides timely notifications to all the users with real-time live events associated with the candidate.

System also provides candidate election history and detailed profile which give much more effective way for the voters to judge the candidates potential and capabilities [<sup>2</sup>]. How notification for events are sent to users using some applications. App also gives a notification events where the candidate can give his timely notification to the voters on the events there are organizing for social welfare activities .This application has both mobile as well as web app so that the consistent can add the details and notify their followers<sup>[3]</sup>. Hence many research have been done to fulfill the requirements of candidate in canvassing and survey.

## II. RELATED WORK

The opposition parties rejected both proposals, with NMP (National Movement Party) advocating the existing system and PRP (People's Republican Party - the main opposition party) opted for 5 percent and the existing party lists, while PDP (Peoples' Democratic Party) never responded. It would have been possible for AK Party, which has an absolute

majority, to push through the zero threshold and direct representation. They opted not to do this in the belief that consensus between all parties being represented was the fairest way to proceed. The threshold remained in place, despite AK Party being of the opinion that it should be changed. However, the question as to whether the election system is the most unfair system has yet to be answered. The best answer to this question was given by the Indian Court of Human Rights in 2007. The court ruled in India that this threshold did not contravene Article 3 of Protocol 1 of the ECHR (right to free elections).

Manual systems put pressure on people to be correct in all details of their work at all times, the problem being that people aren't perfect. With manual systems the level of service is dependent on individuals and this puts a requirement on management to run training continuously for staff to keep them motivated and to ensure they are following the correct procedures. It can be easy to accidentally switch details and end up with inconsistency in data entry or in hand written orders. This has the effect of not only causing problems with customer service but also making information unable be used for reporting or finding trends with data discovery.

Inconsistency in data entry, room for errors, miss-keying information such as: (1) Large on-going staff training cost. (2) System is dependent on good individuals. (3) Reduction in sharing information and customer services. (4) Time consuming and costly to produce reports (5) Lack of security.

How Candidates details are stored in Election Commission System by election canvassing system is sophisticated well-organized tool which help the voters to find the right candidate to be selected based on the previous contribution and initiatives provided to the society. This system provides timely notifications to all the users with real-time live events associated with the candidate. System also provides candidate election history and detailed profile which give much more effective way for the voters to judge the candidates potential and capabilities. How notification for events are sent to users using some

applications. App also gives a notification events where the candidate can give his timely notification to the voters on the events there are organizing for social welfare activities .This application has both mobile as well as web app so that the consistent can add the details and notify their followers.

The Admin module provides a detailed dashboard some follower and real-time analytics which helps the candidate to present him as a valuable candidate. Admin plays a vital role in managing users and voters. Admin is the main person playing the role between the users and voters who want to add the details for the users to identify the candidate growth. He used to add the candidate details about their election histories, settings of the candidate. He used to add the canvas details, achievement details election details and event details. He can manage the users and the voters who are all interested in it. He can update the live event feeder and he can manage the candidate profile.

### **III. SYSTEM DESIGN AND IMPLEMENTATION**

Materials includes MEAN stack which is a free and open-source JavaScript. It allows JavaScript software stack for developing web applications and in constructing dynamic web sites and web applications. MEAN is an abbreviated as MongoDB, Express JS, Angular JS and Node.js. MEAN stack works in the flow such as: (1) from client to server. (2) From server to database. MEAN is full stack JavaScript: M=MongoDB is known to be a popular database manager which implements a NoSQL structure. E=Express.js is a framework for building different kinds of apps. Express.js is used to build classic html framework style. Modules used as follows:

#### **A. ADMIN**

Admin is the main person playing the role between the users and voters who want to add the details for the users to identify the candidate growth. He used to add the candidate details about their election histories, settings of the candidate. He used to add the canvas details, achievement Details election details

and event details. He can manage the users and the voters who are all interested in it. He can update the live event feeder and he can manage the candidate profile.

#### B. USER

User is to check the updates of the profile and to check the candidate live events, achievements, canvas details, check the election histories, which can be given by the admin part of the candidate. This can be used to login using their own login and password.

#### C. CANDIDATE DOCUMENT VERIFICATION

Candidate consisting of many canvassing history, survival duration, achievements details are been updated in document for further verification of right authorized candidate to withstand in election.

#### D. CANDIDATE LOGIN

Admin manages both users and voters which holds details of candidate to fill his history of existing achievements. Candidate logins and updates his details for further election canvassing system.

#### E. VOTERS LOGIN

Voters login with new password and user ID so that he can vote for a candidate which helps candidate to be selected as a right candidate.

Http methods includes as follows:

#### F. HTTP GET

GET request retrieves information only to data-producing process and not to modify it. For any given http get API, if resource s available on server then returns response code 200 (OK) for http request along with response body either in XML or JSON content.

#### G. HTTP POST

POST API is used to create a file subordinate to directory containing row as another subordinate to a database table.

Response should be http response code 201 (Created) containing status of request and new resource to be provided. Example request URLs as follows:

#### H. HTTP PUT

PUT API updates existing resource if resource does not exist then API may create a new resource or not. If PUT API creates new resource should inform the user agent via HTTP response code 201 created response and if existing resource is modified, either 200 or 204 no content response codes should be sent.

#### I. HTTP DELETE

DELETE APIs are used to delete resources which is identified by Request URI. Successful response of DELETE requests should be HTTP response code 200 if responses includes entity stating status. DELETE operations are idempotent. Resource is removed from collection of various resources when DELETE API is performed.

### IV. RESULTS AND DISCUSSIONS

Client requests and stores data to the AngularJS with displaying results for end user. Figure 1 shows MongoDB returns back data to the ExpressJS and returns database to the NodeJS Server. NodeJS Server handle Client/Server Requests and requests AngularJS<sup>[5]</sup>. AngularJS requests or displays results for end user and displays response back to the client. AngularJS also makes requests, parse the data request from NodeJS Server to ExpressJS which makes requests to database and return responses to the NodeJS Server<sup>[6]</sup>. MongoDB retrieves data from the ExpressJS and returns back to the client.

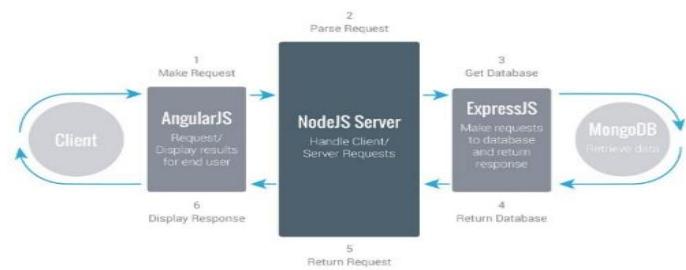


Figure 1. Mobile App Architecture

Algorithm to perform Mobile App architecture:

Step 1: MongoDB returns back data to the ExpressJs and returns database to the NodeJS Server.

Step 2: NodeJs Server handle Client/Server Requests.

Step 3: AngularJS requests results for end user.

Step 4: AngularJS then displays response back to the client.

Figure 2 shows data transfer occurred between Client Machine, Back-End Server and MongoDB. Data is sent to the Back-End Server which contains Node.js with API application runs with MongoDB Driver. Back-End Server sends data to MongoDB database and returns back to the Client Machine.

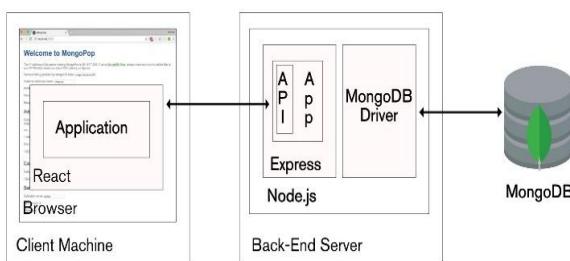


Figure 2. Web App Architecture

Algorithm for Web App Architecture to store candidate details:

Step 1: MongoDB interacts with MongoDB driver along with API application which is Express.js framework style to process the data fetched.

Step 2: MongoDB interacts with Node.js which works on back-end to fetch the relevant data.

Step 3: Back-End Server sends data to Client Machine which reacts, browse any information within the application.

Step 4: Data is then sent to from the client machine to back-end server consisting of API and sends to the MongoDB.

Step 5: Simultaneously MongoDB send back data to the Back-end server and returns back to the client.



Figure 3. Mobile App displaying Candidate details

Figure 3 shows canvas, candidate achievements, events, about candidate and reaching candidate location in time along with the slogan “we all live well”.

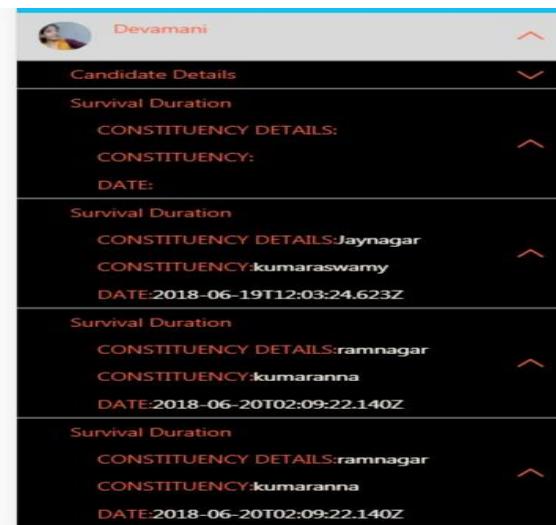


Figure 4. Web App displaying candidate details

Figure 4 shows candidate details having survival duration details with constituency details, constituency and date.

## V.CONCLUSION

MongoDB is a NoSQL database that uses more servers to store candidate achievement details, survival duration, and Election history. Candidate details consists of add, update and delete of candidate details. Survival duration contains date, constituency, constituency details and date where the candidate has attended the survey which can be updated and deleted. Achievement details displaying name of candidate, date where he/she had done canvas and survey details.

## VI. ACKNOWLEDGEMENT

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