|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **API** | **URL** | **METHOD** | **REQUEST** | **RESPONSE** |
| 1. Login | Eballot.com/login | Get, post | {  “status\_code”:200,  “status\_messsage”:”information complete”,  “user”:{  “username”:”xyz:,  “password”:”123”,  “type”:”voter”  }  “token”:”abc123xyz”  } | {  “status\_code”:202,  “status\_messsage”:”user found”  }  Or  {  “status\_code”:203,  “status\_messsage”:” not found”  } |
| 1. Signup | Eballot.com/signup | Get, post | {  “status\_code”:200,  “status\_messsage”:”information valid”,  “user”:{  “username”:”xyz:,  “password”:”123”  “CNIC”:35202166084573,  ……  }  “token”:”abc123xyz”  } | {  “status\_code”:201,  “status\_messsage”:”user added”  }  Or  {  “status\_code”:201,  “status\_messsage”:”user not added”  } |
| 1. Homepage(voter) | Eballot.com/voter/homepage | Get | “token”: “abc123xyz” | {  “status\_code”:600,  “status\_messsage”:”ok”,  “candidate”:{  [  “Rollno”:”234”,  “Description”:”…”,  “picture”:”…”,  “votes”:”33”  ],  [  “Rollno”:”2344”,  “Description”:”…”,  “picture”:”…”,  “votes”:”33”  ],  [  “Rollno”:”2134”,  “Description”:”…”,  “picture”:”…”,  “votes”:”33”  ]  }  } |
| 1. View profile | Eballot.com/voter/view\_profile | Get | “token”: “abc123xyz” | {  “status\_code”:600,  “status\_messsage”:”ok”,  “user”:{  “username”:”xyz:,  “password”:”123”  “CNIC”:35202166084573,  .  .  .  }  “token”:”abc123xyz”  } |
| 1. Cast Vote | Eballot.com/voter/cast\_vote | Get,post | {  “CandidateID”:123,  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”  } |
| 1. View candidate | Eballot.com/voter/view\_candidate | Get | {  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  “candidate”:[ "abc", "def", "ghi" ]  } |
| 1. Search candidate | Eballot.com/voter/search\_candidate | Get | {  “keyword”:”abc”,  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  “candidate”:[ "abc", "def", "ghi" ]  }  or  {  “status\_code”:203,  “status\_messsage”:” not found”  } |
| 1. Update profile | Eballot.com/voter/update\_profile | Put | {  “token”: “abc123xyz”,  “Username”:”aaa”,  “rollNumber”:”sd”  } | {  “status\_code”:600,  “status\_messsage”:”ok”  }  Or  {  “status\_code”:601,  “status\_messsage”:”unsucessful”  } |
| 1. Deactivate account | Eballot.com/voter/deactivate\_account | delete | {  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”  } |
| 1. Change Password | Eballot.com/voter/change\_password | patch | {  “token”: “abc123xyz”,  Password:”dcd”  } | {  “status\_code”:600,  “status\_messsage”:”ok”  }  Or  {  “status\_code”:601,  “status\_messsage”:”unsucessful”  } |
| 1. Filter by batch (search) | Eballot.com/voter/view\_candidate/filter\_by\_batch | Get | {  “keyword”:”abc”,  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  “candidate”:[ "abc", "def", "ghi" ]  }  or  {  “status\_code”:203,  “status\_messsage”:” not found”  } |
| 1. HomePage (Admin) | Eballot.com/admin/homepage | Get | {  “token”:”dfsd”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  “candidate”:{  [  “Rollno”:”234”,  “Description”:”…”,  “picture”:”…”,  “votes”:”33”  ],  [  “Rollno”:”2344”,  “Description”:”…”,  “picture”:”…”,  “votes”:”33”  ],  [  “Rollno”:”2134”,  “Description”:”…”,  “picture”:”…”,  “votes”:”33”  ]  }  } |
| 1. Add candidate | Eballot.com/admin/add\_candidate | post | {  “candidate”:  {“username”:”abc”,  “rollnumber”:”fd”,  …..}  “token”: “abc123xyz”  } | {  “status\_code”:201,  “status\_messsage”:”user added”  }  Or  {  “status\_code”:201,  “status\_messsage”:”user not added”  } |
| 1. Delete candidate | Eballot.com/admin/delete\_candidate | delete | {  “candidate”:  {  “rollnumber ”:”abc”  }  “token”: “abc123xyz”  } | “status\_code”:600,  “status\_messsage”:”ok”  }  Or  {  “status\_code”:601,  “status\_messsage”:”unsucessful”  } |
| 1. View candidate list | Eballot.com/admin/view\_candidate\_list | Get | {  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  “candidate”:[ "abc", "def", "ghi" ]  } |
| 1. Search Candidate | Eballot.com/admin/search\_candidate | Get | {  “Keyword”:” DC”,  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  “candidate”:[ "abc", "def", "ghi" ]  }  or  {  “status\_code”:203,  “status\_messsage”:” not found”  } |
| 1. Search voter | Eballot.com/admin/search\_voter | Get | {  “Keyword”:” DC”,  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  “voters”:[ "abc", "def", "ghi" ]  }  or  {  “status\_code”:203,  “status\_messsage”:” not found”  } |
| 1. View votes | Eballot.com/admin/view\_votes | Get | {  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  “candidates”:[ "abc", "def", "ghi" ]  }  or  {  “status\_code”:203,  “status\_messsage”:” not found”  } |
| 1. Delete voter | Eballot.com/admin/delete\_voter | delete | {  “User\_rollNumber”:”ds”,  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  }  or  {  “status\_code”:203,  “status\_messsage”:” not found”  } |
| 1. Set Deadline | Eballot.com/admin/set\_deadline | post | {  “time”:”anytime”,  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  } |
| 1. Add another admin | Eballot.com/admin/add\_another\_admin | post | {  “status\_code”:200,  “status\_messsage”:”information valid”,  “user”:{  “username”:”xyz:,  “password”:”123”  “CNIC”:35202166084573,  ……  }  “token”:”abc123xyz”  } | {  “status\_code”:201,  “status\_messsage”:”user added”  }  Or  {  “status\_code”:201,  “status\_messsage”:”user not added”  } |
| 22.view profile(admin) | Eballot.com/admin/view\_profile | Get | {  “token”: “abc123xyz”  } | {  “status\_code”:600,  “status\_messsage”:”ok”,  “user”:{  “username”:”xyz:,  “password”:”123”  “CNIC”:35202166084573,  .  .  .  }  “token”:”abc123xyz”  } |
| 23. update profile(Admin) | Eballot.com/admin/update\_profile | Put | {  “token”: “abc123xyz”,  “Username”:”aaa”,  “rollNumber”:”sd”,  …..  } | {  “status\_code”:600,  “status\_messsage”:”ok”  }  Or  {  “status\_code”:601,  “status\_messsage”:”unsucessful”  } |
| 24.change password | Eballot.com/admin/change\_password | patch | {  “token”: “abc123xyz”,  “password”:”aaa”,  “rollNumber”:”sd”  } | {  “status\_code”:600,  “status\_messsage”:”ok”  }  Or  {  “status\_code”:601,  “status\_messsage”:”unsucessful”  } |
| 25. logout | Eballot.com/admin/logout  Or  Eballot.com/voter/logout | get | {  “token”:”deff”  } | {  “status\_code”:600,  “status\_messsage”:”ok”  }  Or  {  “status\_code”:601,  “status\_messsage”:”unsucessful”  } |

# Database Schema:

We will use MongoDB as our database and following are the tables we’ll use.

## User:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Roll number**  **(String) (primary key)** | User Name  (String) | Password  (String) | Type  (admin->0  Voter->1)  (Boolean) | CNIC  (string) | Date of Birth  (Date) | Batch  (Integer) | Father  CNIC  (string) |

## Candidate:

|  |  |  |  |
| --- | --- | --- | --- |
| **Roll number**  **(String) (Foreign key)**  **(from User)** | Description  (String) | Picture  (Buffer) | Votes  (integer) |

## Results:

|  |  |  |
| --- | --- | --- |
| **Batch**  **(Integer)**  **(primary key)** | Roll number  (String) (Foreign key)  (from Candidate) | Votes  (Integer)  (Foreign key)  (from Candidate) |

**Note:** primary keys are highlighted. A candidate can also be a voter.

# Client-Side platform:

Web-Based application.

We are using ,

1) ‘node.js’ as a server side language

2) ‘html and css’ as client side languages.

3) MongoDb for database

# Description:

We are making an Online Voting System for Batch Representative of a University. An admin will add candidates. A candidate can also be a voter. A voter can only vote for its respective batch. We have not mention request/response for a page get in the above table.

Following Html pages will be rendered for the APIs.

|  |  |
| --- | --- |
| **API** | **Screen** |
| 1 | Login |
| 2 | Signup |
| 3 | HomeScreen (voter) |
| 4 | View Profile |
| 5 | Cast Vote |
| 6 | View Candidate |
| 7 | HomeScreen (voter) |
| 11 | View Candidate |
| 12 | HomeScreen (Admin) |
| 15 | View candidate |
| 16 | HomeScreen (Admin) |
| 17 | HomeScreen (Admin) |
| 18 | View Votes |
| 22 | View Profile (Admin) |
| 25 | Login |