# **Polling Application**

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## **Users** The user collection will store all users. Users will be able to login, update their details, and post polls. An array of the poll id’s the user created and an array of the poll id’s the user has voted on

{  
 "firstName": "John”  
 “lastName”: “Doe",  
 "Email": "JDoe@gmail.com",  
 "Gender": "M",  
 "City": "Hoboken",  
 "State": "NJ",  
 "Age": "25",  
 "\_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",  
"hashedPassword": "$2a$08$XdvNkfdNIL8F8xsuIUeSbNOFgK0M0iV5HOskfVn7.PWncShU.O",  
 “usersPolls”: [7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310,   
 7b696a2-d0f2-4g8g-h67d-7a1d4b6b6710],  
 “votedPolls”: [7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310,   
 7b696a2-d0f2-4g8g-h67d-7a1d4b6b6710]  
}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | string | A globally unique identifier to represent the user. |
| usersPolls | array | An array that store the poll\_ids which users created. |
| votedPolls | array | An array that stores the poll\_ids which users voted on. |
| hashPassword | string | The password when users log in. |

## **Polls** The Polls collection will store all the polls created by users. It stores comments that are related to the poll in the comments sub-document.

{  
 "\_id": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",   
 “category”: “Technology”,  
 “postedDate”: “1/1/2006”   
 "question": "What Phone SHould I buy?”  
 “ansChoice1” : “iPhone 7",  
 “ansChoice2” : “Samsung Galaxy S7 Edge",  
 “ansChoice3” : “Google Pixel XL",  
 “ansChoice4” : “Moto Z",  
 "comments":[{  
 “\_id”: “7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310”,  
 “name”: “Patrick Hill”,  
 “comment”: “You should go with the pixel!”  
 }]  
}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | string | Stores the poll id. |
| category | string | The category of the polls such as Technology, Sports, Music etc. |
| postedDate | date | Store the date that the polls created. |
| question | string | Stores the question. |
| ansChoice1 | string | First answer choice. |
| ansChoice2 | string | Second Answer Choice. |
| ansChoice3 | string | Third Answer Choice. |
| ansChoice4 | string | Fourth Answer Choice. |
| comments | Sub-Document | Comments is a Subdocument that stores the comments for a poll. |

## **Comments** Comments is a subdocument of the polls collection.

"Comments":[{  
 “\_id”: “7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310”,  
 “Name”: “Patrick Hill”,  
 “Comment”: “You should go with the pixel!”

}]

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | string | The comment ID. |
| name | string | The name of the person who posted the comment. |
| comment | string | The comment text. |

## **votesAndMetrics** The votesAndMetrics collection contains the poll id (which is stored as the id for the answers), total votes of each choice and also how many Male and Female votes each choice.

{ “\_id”: poll\_id,  
 “ansChoice1”: [{  
 “Totalvotes”: 10,  
 “Male”: 8,  
 “female” : 2

}],  
 “ansChoice2”: [{  
 “totalVotes”: 10,  
 “male”: 8,  
 “female” : 2  
 }],

“ansChoice3”: [{  
 “totalVotes”: 10,  
 “Male”: 7,  
 “female” : 3

}],

“ansChoice4”: [{  
 “totalVotes”: 10,  
 “male”: 7,  
 “female” : 3

}]   
}

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| \_id | string | Stores the poll\_ids which have been voted. |
| ansChoice1 | Subdocument | Subdocument contains total numbers of votes broken down by gender. |
| ansChoice2 | Subdocument | Subdocument contains total numbers of votes broken down by gender. |
| ansChoice3 | Subdocument | Subdocument contains total numbers of votes broken down by gender. |
| ansChoice4 | Subdocument | Subdocument contains total numbers of votes broken down by gender. |

## **Answer choices**

Answer choices are a subdocument of votesAndMetrics that stores the total number of votes per poll and votes broken down by gender. (this section covers all answer choice subdocuments answerChoice1, answerChoice2 etc..)

"ansChoice1": [{  
 “totalVotes”: 10,  
 “male”: 7,  
 “female”: 3  
 }]

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| totalVotes | Number | The total number of votes who voted on the poll. |
| male | Number | The total number of votes males voted on the poll. |
| female | Number | The total number of votes females voted on the poll. |