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PROJECT TITLE: QuickPoll

BSCS-633 INTERNET APPLICATION DEVELOPMENT

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Table of Contents

PROJECT TITLE: QUICKPOLL	3
Overview	3
Technology Stack.....	3
System Requirements (with Technology Used).....	3
Features.....	4
Folder Structure	5
Architecture & Flow.....	5
Flow Diagram	5
ERD Diagram (Simplified)	6
Screenshots / Mockups.....	6
Create Poll Page	6
Input for question and 3 options	6
Shows validation alert if invalid	6
Poll View	7
Vote form (radio buttons)	7
Live result list.....	8
Winner/tie highlight.....	8
Close Poll (if Creator).....	9
Index Page	9
Lists all polls with status	9
Buttons to view each	9

PROJECT TITLE: QUICKPOLL

QuickPoll is a real-time online polling tool that lets users create polls, vote, and view live results. It offers anonymous participation without requiring a login, while ensuring fairness with one vote per IP address. This makes it easy to gather opinions and get instant feedback.

Overview

QuickPoll is perfect for classrooms, teams, and communities seeking a hassle-free way to conduct polls. By eliminating the need for logins and using IP-based voting restrictions, it ensures a smooth and integrity-driven polling experience.

Technology Stack

LAYER	Technology
Backend	Node.js + Express
Frontend	HTML, CSS, Bootstrap
Template Engine	Handlebars (hbs)
Database	MongoDB (Mongoose)
Utilities	IP tracking, clipboard

System Requirements (with Technology Used)

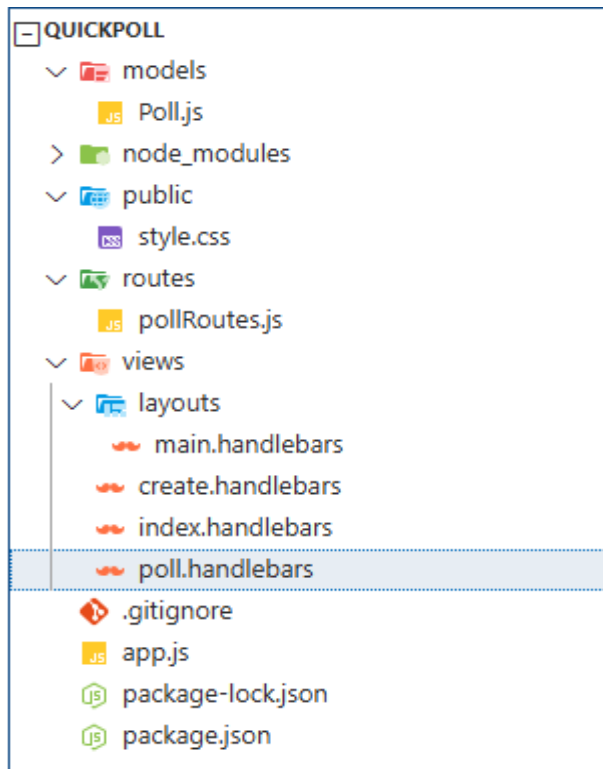
Requirement	Technology Used	Purpose
Node.js	v22.14.0	JavaScript runtime for backend
Express.js	v5.1.0	Web server and routing
MongoDB	v8.0.4	NoSQL database to store polls
Mongoose	^8.16.1	MongoDB ODM (Object Data Modeling)

Handlebars	^8.0.2	View template engine
Bootstrap	v5.3 (via CDN)	UI styling and responsive design
Font Awesome	v6.5 (via CDN)	Icons (used for UI buttons)
Browser	Chrome, Firefox, Edge (latest)	Client-side rendering
OS	Windows, macOS, or Linux	Compatible for development & deployment

Features

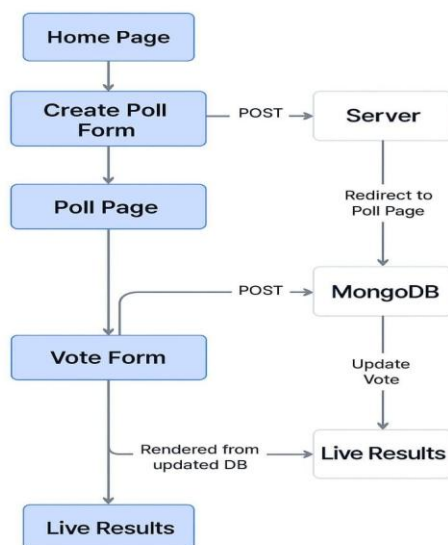
Feature	Description
Create Poll	Add a question with 3 options
Vote Without Login	One vote per IP address
Live Results Display	Real-time vote updates with visual indicators
Close Poll Option	Poll creator can close the poll
Winner & Tie Detection	Detect and highlight winning or tied options
Shareable Link	One-click copy to clipboard
Form Validation	Ensures clean & unique input
Alerts & Feedback	Bootstrap-based visual cues

Folder Structure



Architecture & Flow

Flow Diagram



ERD Diagram (Simplified)

POLL	
_id	ObjectId
question	String
options	[String]
votes	{ option: count }
votedIPs	[String]
creatorIP	String
status	"Active" "Closed"
createdAt	Date

Screenshots / Mockups

Create Poll Page

Input for question and 3 options

Create Poll

Question

Best CR?

Please enter the poll question.

Options

CR 1 CR 2 CR 3

+ Create Poll

Shows validation alert if invalid

Create Poll

All unique options are required. ✕

Question

Best CR?

Please enter the poll question.

Options

CR 1 CR 2 CR 1

+ Create Poll

Poll View

Vote form (radio buttons)

Best CR?

Copy Link

☐ CR 1
☒ CR 2
☐ CR 3

Vote

Live Results

CR 1	0 votes
CR 2	0 votes
CR 3	0 votes

Close Poll

Best CR?

Copy Link

✓ You have already voted.

Live Results

CR 1	0 votes
CR 2	1 votes
CR 3	0 votes

Close Poll

Live result list

Best CR?

[Copy Link](#)

✓ You have already voted.

Live Results

CR 1	0 votes
CR 2	1 votes
CR 3	0 votes

[Close Poll](#)

Winner/tie highlight

Best CR?

[Copy Link](#)

✓ You have already voted.

Live Results

🏆 Winner: CR 2

CR 1	0 votes
CR 2	1 votes
CR 3	0 votes

Best CR?

[Copy Link](#)

✓ You have already voted.

Live Results

🤝 It's a tie between: CR 1, CR 2

CR 1	1 votes
CR 2	1 votes
CR 3	0 votes

Close Poll (if Creator)

Best University? [Copy Link](#)

☐ KU
☐ NED
☐ SSUET

[Vote](#)

Live Results

KU	0 votes
NED	0 votes
SSUET	0 votes

[Close Poll](#)

Index Page

Lists all polls with status

All Polls

[+ Create New Poll](#)

Best University? Active	View
Best CR? Closed	View

Buttons to view each

All Polls

[+ Create New Poll](#)

Best University? Active	View
Best CR? Closed	View