The app architecture leverages a few AWS managed services. Managed services help you reduce cost and maintenance.

API Gateway: This creates a POST endpoint for user votes, and forwards an event to Lambda.

Lambda: These are scalable containers for the app. There are two Lambda functions:

Function 1: Updates the database with a user’s vote

Function 2: Updates the website with the latest results

DynamoDB: The data is stored in a managed NoSQL database.

S3: HTML/CSS/JS files are hosted as a website. A JSON file on S3 caches the latest tallies, which reduces the number of calls to DynamoDB.

