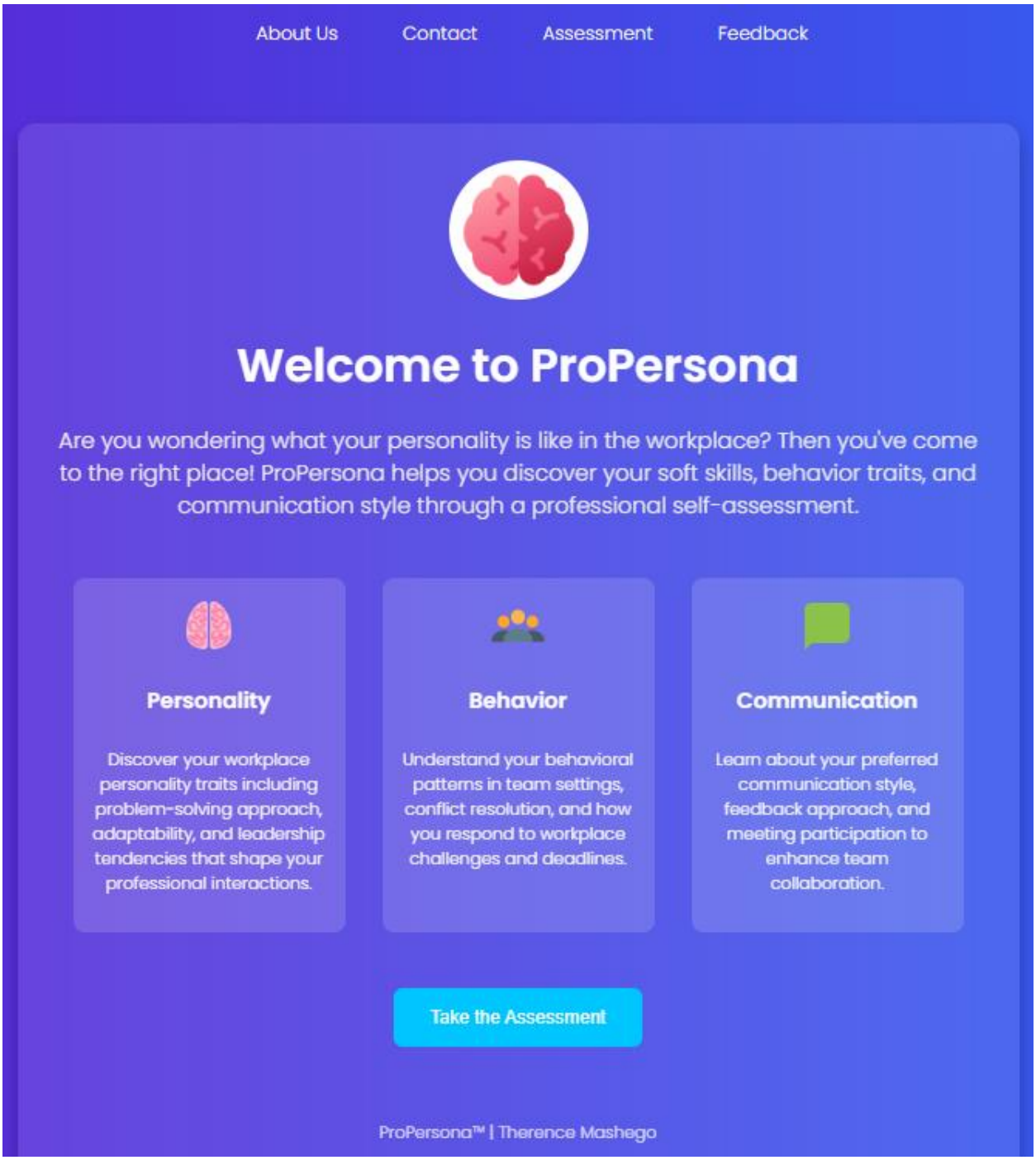
ProPersona - Personality Assessment Tool Documentation



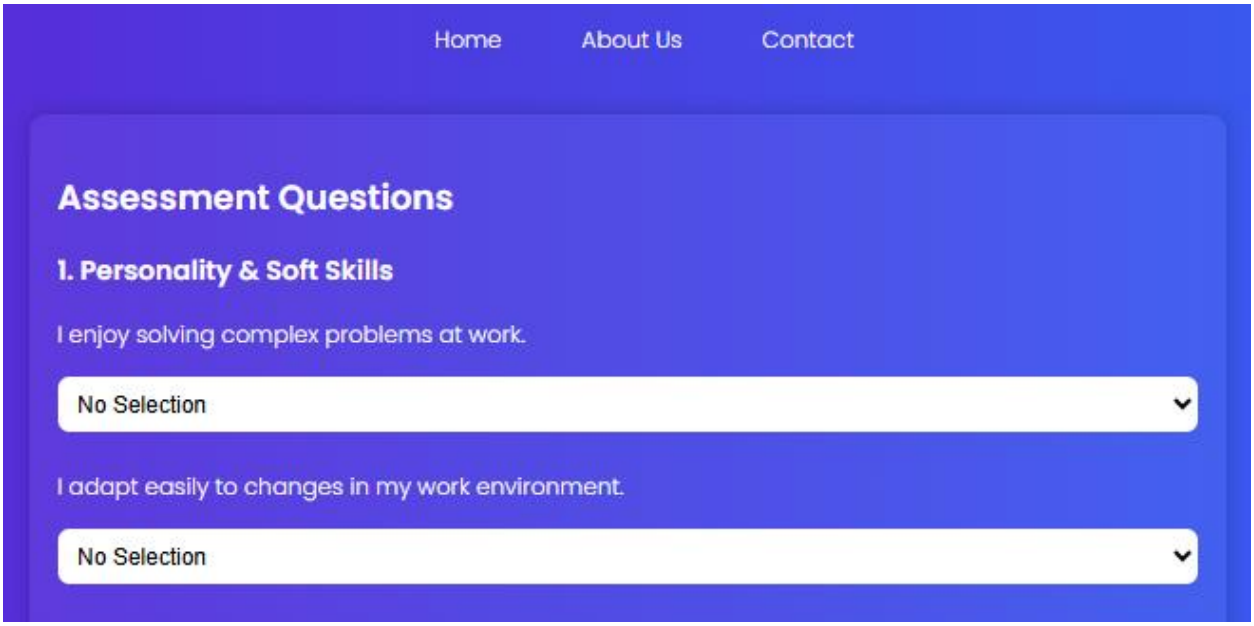
Overview

ProPersona is a professional personality assessment tool designed to help individuals understand their workplace personality traits, behavioral patterns, and communication styles. This web application provides users with personalized insights and recommendations based on their responses to a carefully crafted questionnaire.

Key Features

1. Interactive Assessment: A 15-question survey covering three key areas:

- Personality & Soft Skills
- Workplace Behavior
- Communication Style

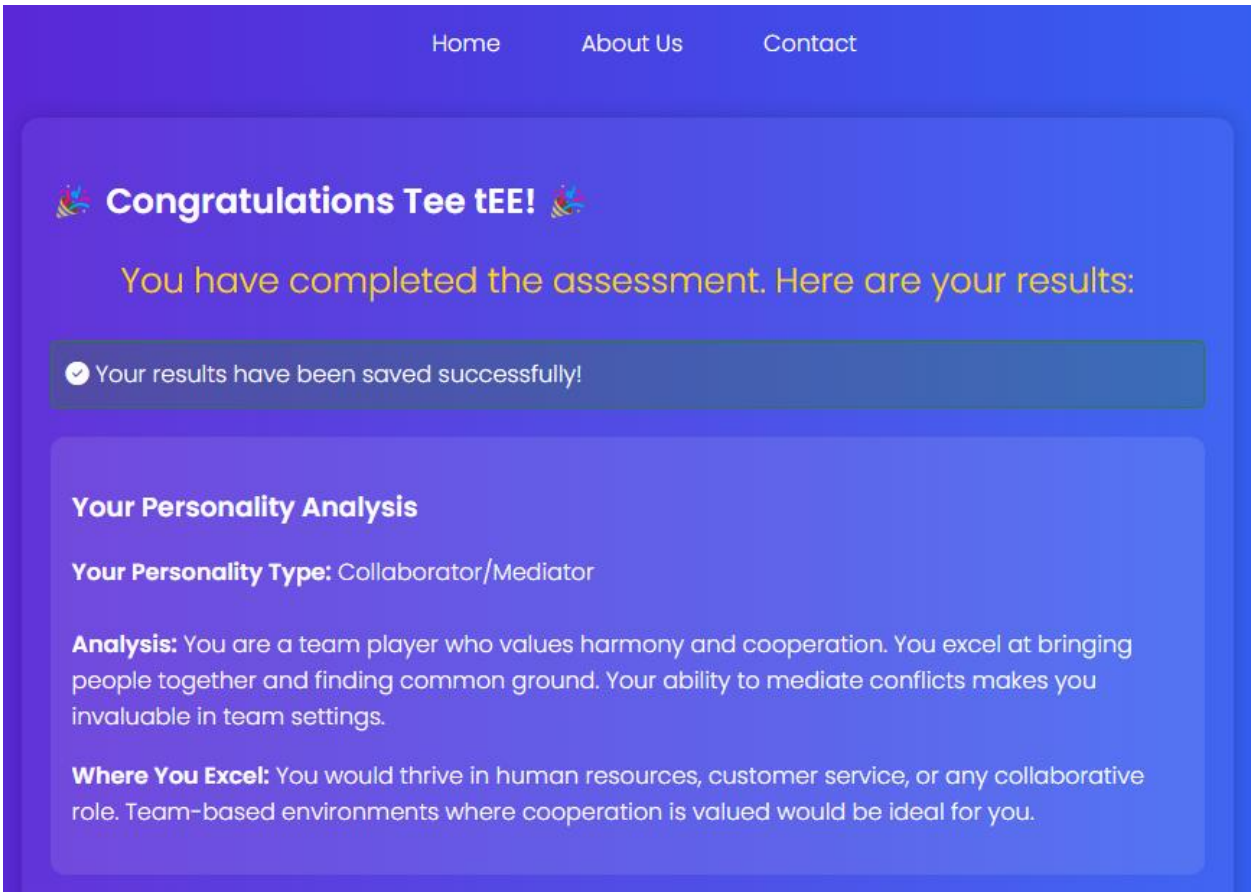


2. Comprehensive Analysis:

- Personality type classification (Initiator/Leader, Collaborator/Mediator, Supportive Contributor)

- Department fit recommendations

- Growth recommendations



3. Visual Data Representation:

- Pie chart showing personality trait distribution

- Radar chart comparing different skill areas

4. Data Persistence:

- Local storage for recent results

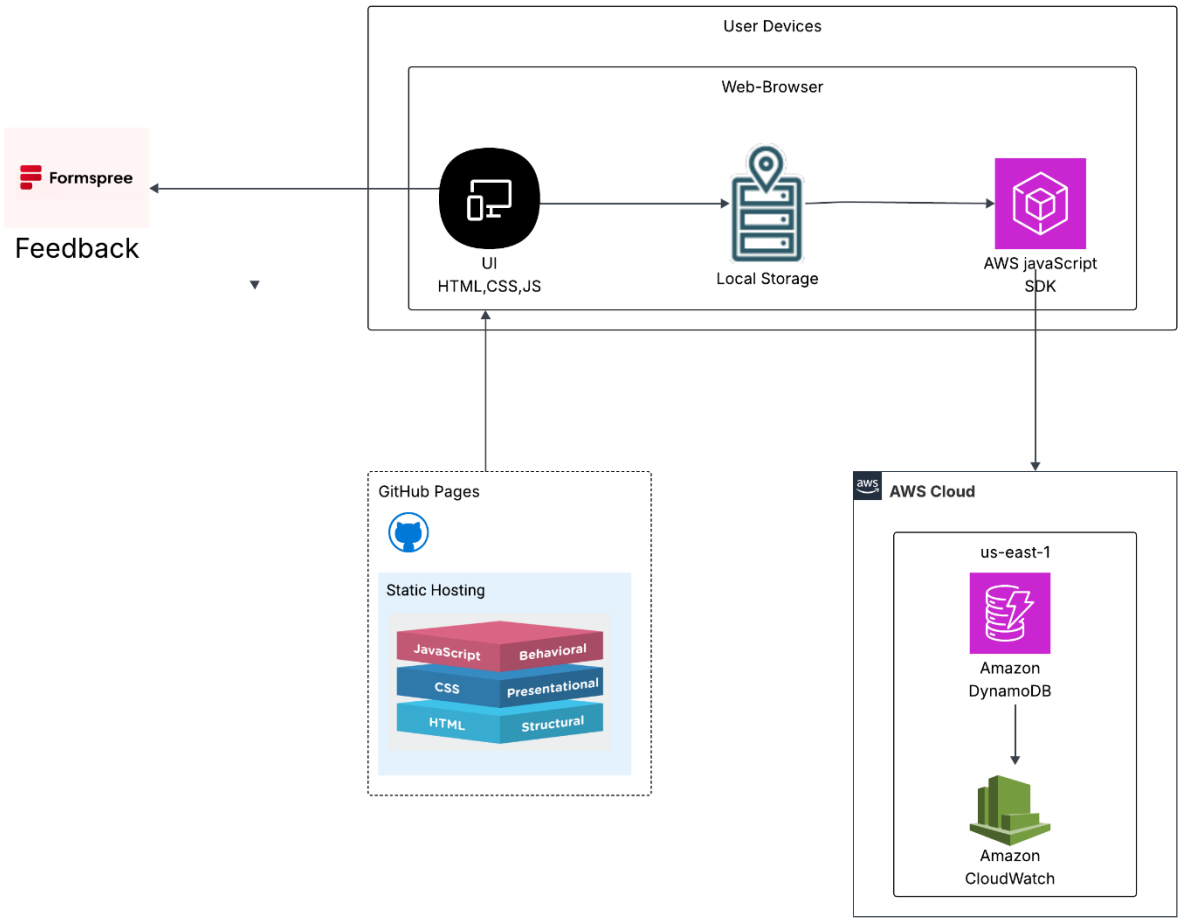
- AWS DynamoDB integration for long-term storage

- Prevention of duplicate submissions

5. Responsive Design: Works across desktop and mobile devices

Technical Architecture

Architectural Diagram



ProPersona Architecture Overview

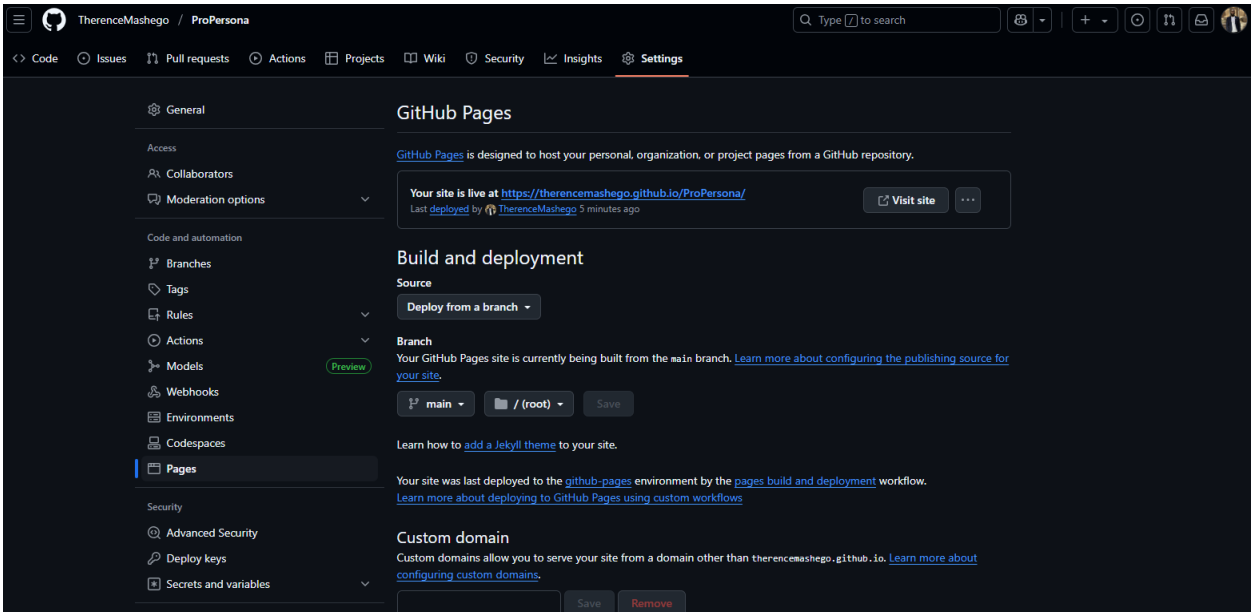
1. Frontend (GitHub Pages)

- index.html: Landing page with project introduction and assessment initiation

- assessment.html: Main assessment interface with questions and results display

- CSS/JavaScript: Styling and interactive functionality

- Chart.js: For data visualization of assessment results



2. AWS Services

AWS DynamoDB

- Table Name: ProPersonaResponses

- Structure:

  - responseId (Primary Key): Unique identifier for each submission

  - userName: User's full name

  - userEmail: User's email address

  - timestamp: Submission date/time

  - responses: Array of question/answer pairs

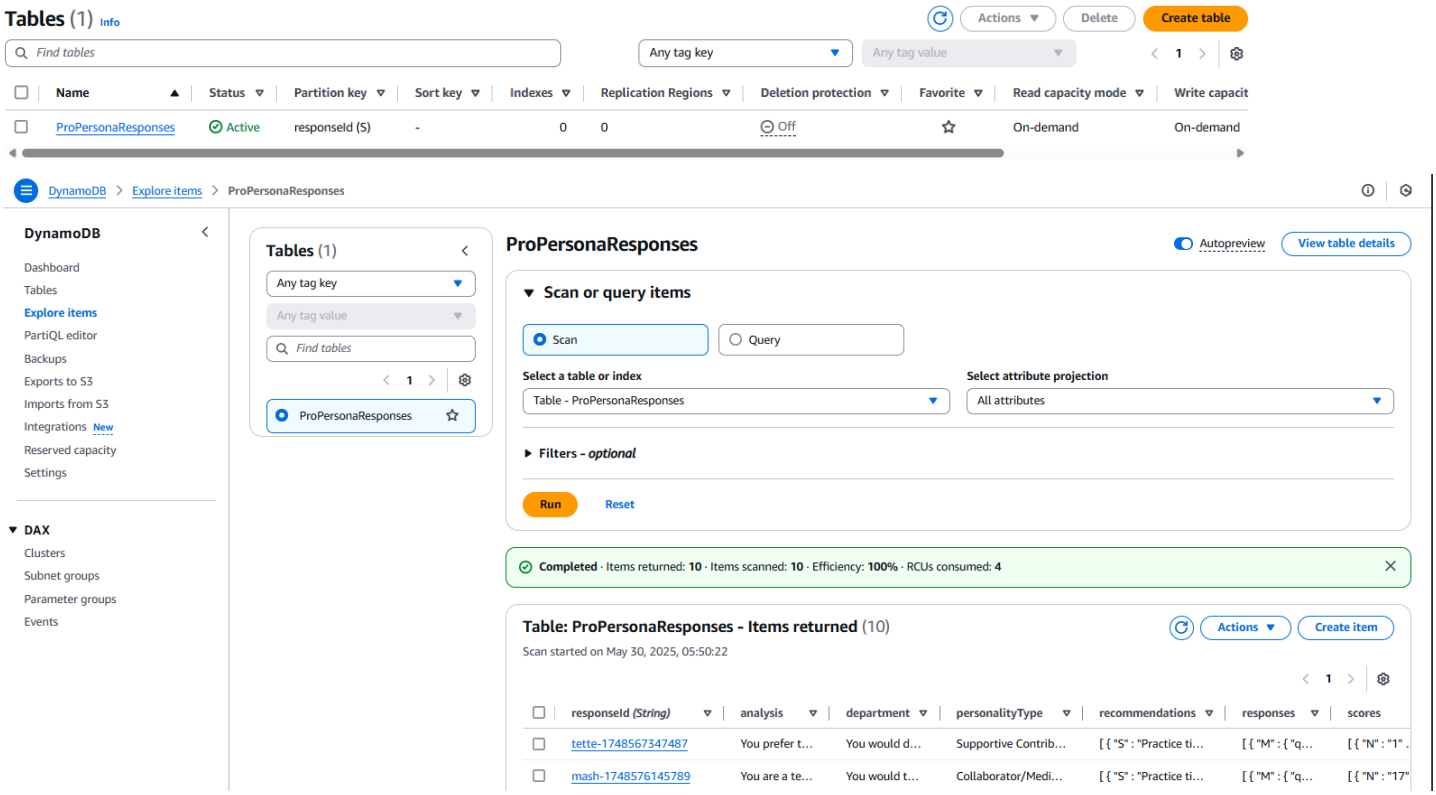
- personalityType: Determined personality classification

- analysis: Detailed personality analysis

- department: Recommended department fit

- recommendations: Growth suggestions

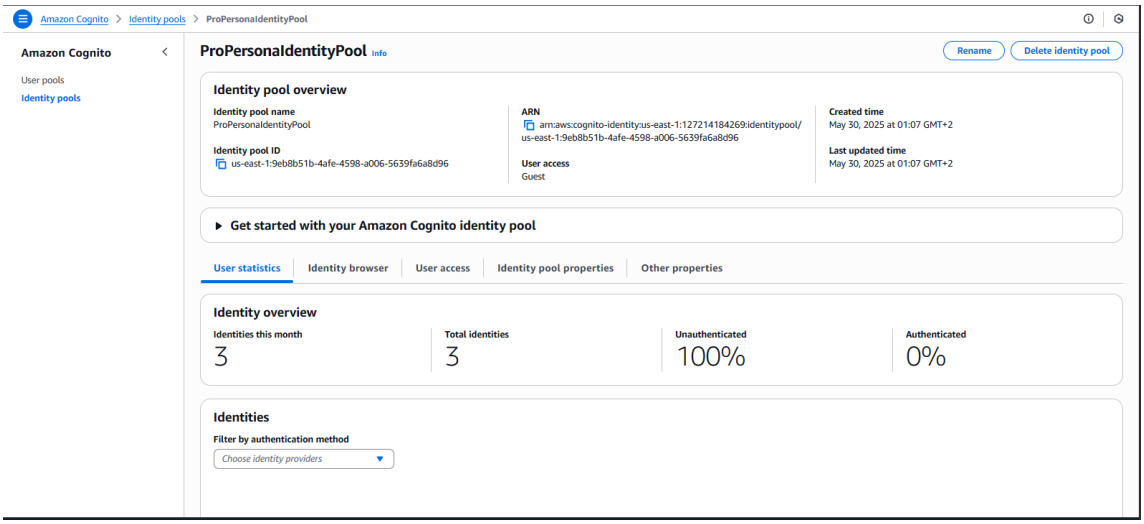
- scores: Numerical scores for each category



AWS Cognito

- Provides temporary AWS credentials for secure DynamoDB access

- Identity Pool ID: `us-east-1:9eb8b51b-4afe-4598-a006-5639fa6a8d96`

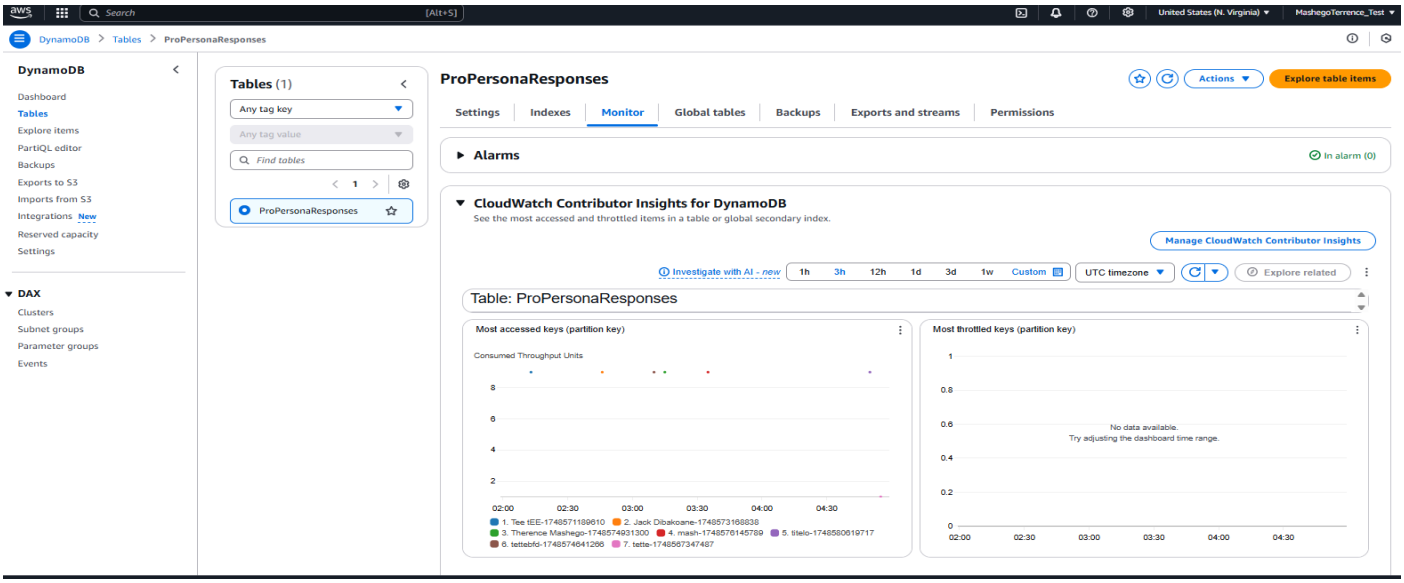


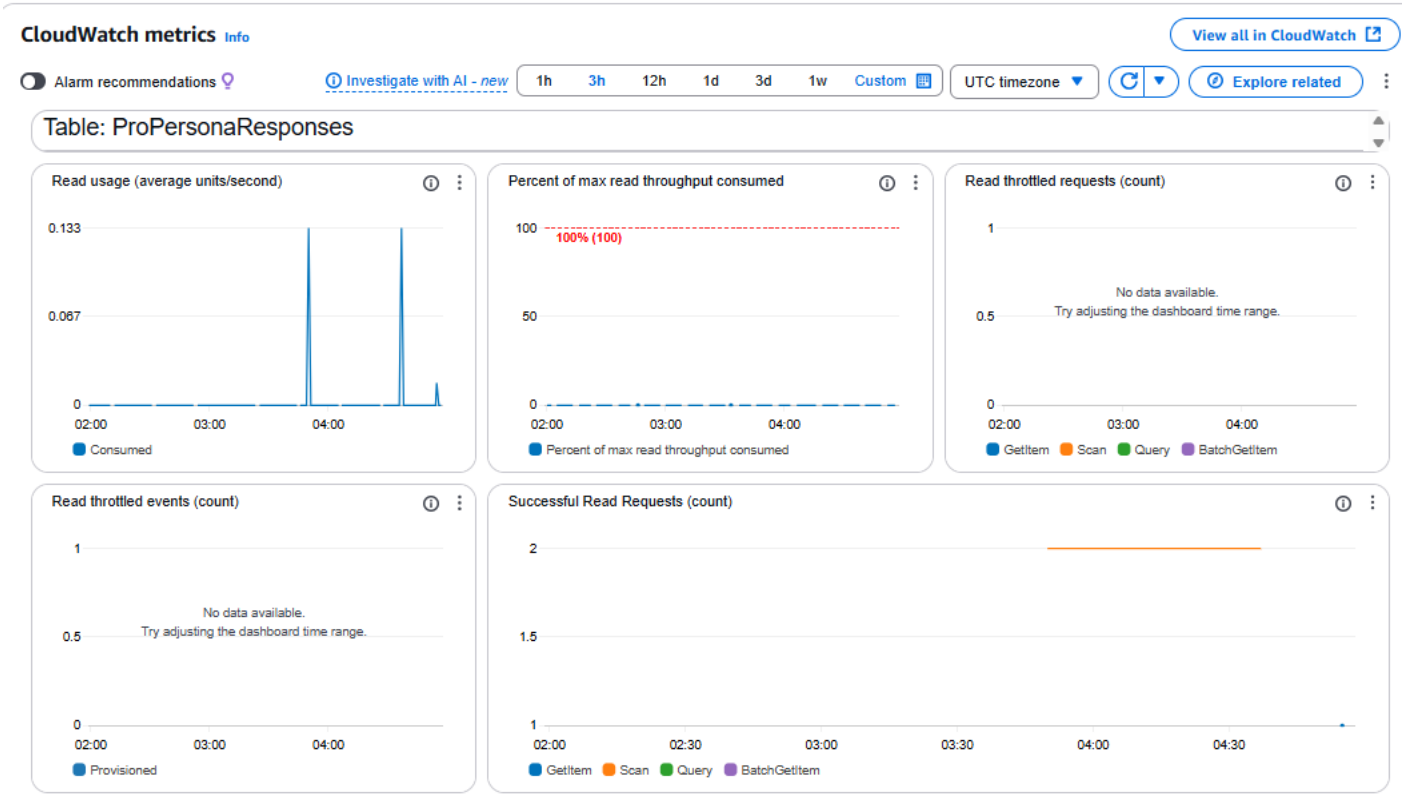
AWS CloudWatch

- Monitors DynamoDB operations

- Logs errors and successful operations

- Provides metrics on assessment submissions





3. Third-Party Dependencies

- Font Awesome: For UI icons

- Google Fonts (Poppins): Typography

- Chart.js: Data visualization

Data Flow

1. User Access:

- User visits GitHub Pages URL
- Browser loads static assets (HTML, CSS, JS)

2. Assessment Process:

- User provides name and email
- Application checks for previous submissions via localStorage
- User completes 15-question assessment
- Responses are processed client-side to generate results

3. Data Storage:

- Results are stored in localStorage for immediate access
- Results are sent to DynamoDB via AWS SDK
- Success/error status is displayed to user

4. Result Display:

- Personality analysis is shown
- Visual charts display trait distribution
- Recommendations are provided

Implementation Details

Security Considerations

- Uses AWS Cognito Identity Pool for secure, temporary credentials
- Prevents duplicate submissions via email verification
- No sensitive user data is stored beyond assessment responses

Performance Optimization

- Client-side processing minimizes server load
- Static hosting on GitHub Pages provides fast load times
- AWS SDK is loaded from CDN

Error Handling

- Form validation with user-friendly error messages
- DynamoDB error states are clearly communicated
- Fallback to localStorage if DynamoDB unavailable

Deployment Process

1. Frontend Deployment:

- Code pushed to GitHub repository
- GitHub Pages enabled for the repository
- Static files served via GitHub's CDN

2. Backend Setup:

- DynamoDB table created with appropriate permissions
- Cognito Identity Pool configured with DynamoDB access
- AWS SDK configured in frontend code

Usage Instructions

1. Access the website via GitHub Pages URL
2. Click "Take the Assessment" button
3. Enter your name and valid email address
4. Complete all 15 questions (required)
5. View your personalized results
6. Optionally print or save your results

Future Enhancements

1. User Accounts: Allow users to track progress over time

2. Comparative Analysis: Compare with industry benchmarks

3. More Detailed Reporting: Expanded insights and suggestions

4. Multi-language Support: Reach a wider audience

5. Team Assessment Features: For organizational use

Conclusion

ProPersona demonstrates a complete serverless application architecture, combining static frontend hosting with cloud-based data persistence. The project showcases skills in web development, user experience design, and cloud integration while providing genuine value to users seeking professional self-awareness.