SW Engineering CSC648/848

Application Name: NNSE

Section 02, Team 06

Name	Role
Anzara Ausaf	**Team Lead / Frontend Lead**
Jiqing Liu	**Backend**
Harris Chan	**Git Master / Document Master**
Nicolas Carrillo	**Database Engineer/ Backend Lead**
Michael Ho	**Database Engineer**
Chance Vodnoy	**Backend**
Casey Steven	**Backend**

Milestone 3

March 25, 2025

Revision Table			
Revisions	Date	Author(s)	Description of Changes
1	03/25/2025	Team Members	Initial Draft
2	04/08/2025	Michael Ho	Note taken from professor's feedback
3	04/15/2025	Harris Chan	Added more details after the meeting.
4	04/07/2025	Anzara Ausaf	Made the UI look like mockup UI design.
5	4/19/2025	Anzara Ausaf	Fixed UI according to feedback from the professor.
6	4/22/2025	Team Members	Final Draft

Appendix I – Rubrics and checklist for Part 1 Milestone 3 review: Project Status and UI Review.

1. UI and functionality feedback (P1 functions only)

During the Milestone 3 demo, the instructor will run our app from the deployment server to verify the following priority-one workflows and user interface elements:

1. Home Page
   - Loads correctly and links to all subpages
   - Welcome banner and search bar present
2. Search and Results
   - Search field enforces a 40-character alphanumeric limit
   - Invalid entries are rejected with a clear error message
   - Matching results display title, description and thumbnail
   - "No results found" message appears when appropriate
3. Filtering and Details
   - Filters update results immediately and persist in the URL
   - Detail page shows full item information and an embedded map placeholder
4. Authentication
   - Sign-up form validates inputs and shows confirmation on success
   - Sign-in form returns specific error messages on failure
   - Protected routes redirect to sign-in if the user is not authenticated

2. List of P1 features committed for delivery– write down the items before the demo and verbally explain it during the meeting if time is allowed

These are the features we will implement through the end of the semester:

1. Home Page
2. Search with input validation
3. Search results list with clickable items
4. Client-side filtering by category
5. Detail page with item description and map placeholder
6. User authentication (sign-up, sign-in, sign-out)

3. Project status – write down the items before the demo and verbally explain it during the meeting if time is allowed

We have completed approximately 60 percent of our P1 features, including home, search, results, basic detail view and authentication flows. Map integration and mobile layout tweaks are in progress.

Risks and Mitigations

- SSL certificate renewal: will automate certbot renew via a cron job
- Team availability: maintain a shared calendar and rotate pairing sessions
- Backend performance: added caching for frequent queries

Coding and Development Practices

- Code style: Airbnb JavaScript and React conventions enforced by ESLint
- Branching model: main for production, dev for integration, feature/* for new work
- Pull requests: require two approvals and pass automated CI checks

Security and Content

- Passwords are hashed with encryption
- All API endpoints validate inputs against JSON schemas
- HTTPS is enforced site-wide
- Images optimized and served with cache headers

Appendix II– Rubrics and checklist for Part 2 Milestone 3 review: SW Review (to be done off-line by TA after Part 1 review)

Git and GitHub organization:

- Development and feature branches are set up correctly
- Pull requests include descriptive titles, linked issues and code review comments
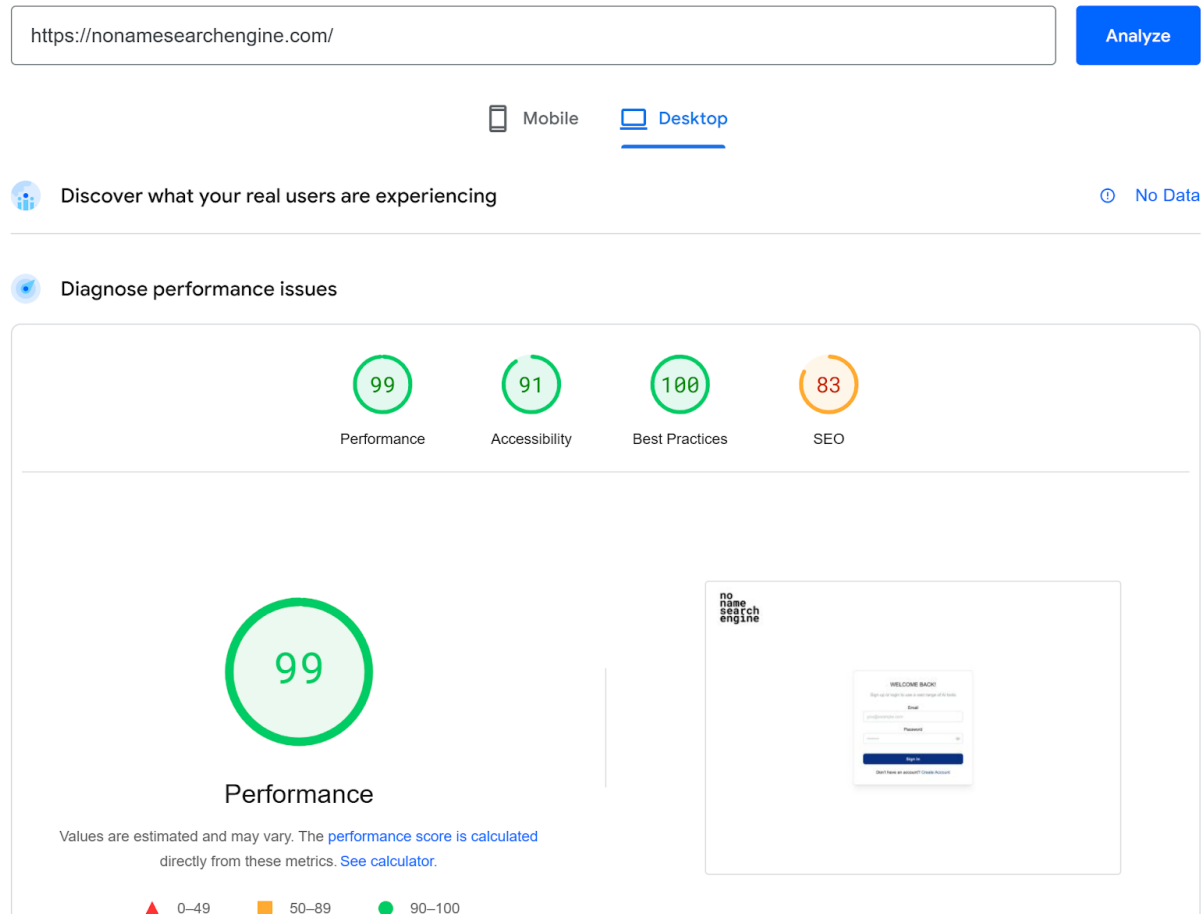
Deployment Verification:

- **No more Localhost**
- GitHub Actions deploy to dev and production environments

Database Schema:

- Core tables (users, items, categories, messages) are complete
- Passwords are stored encrypted
- Sample data is available for demonstration

Performance and Responsiveness:

Report from Apr 22, 2025, 7:32:34 PM

https://nonamesearchengine.com/	**Analyze**

Mobile   Desktop

Discover what your real users are experiencing   ⓘ No Data

Diagnose performance issues

99	91	100	83
Performance	Accessibility	Best Practices	SEO

99

Performance

Values are estimated and may vary. The performance score is calculated
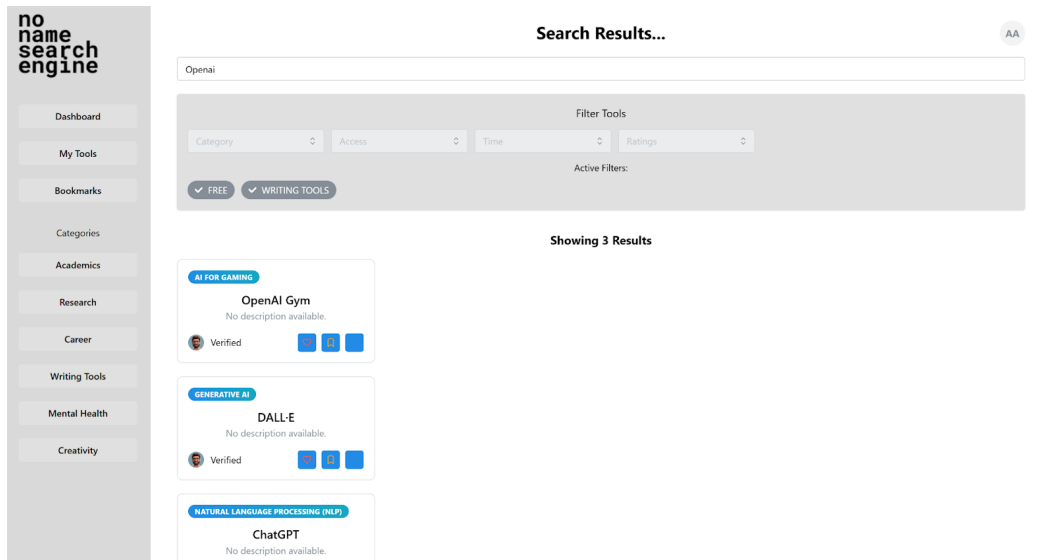directly from these metrics. See calculator.

▲ 0–49   ■ 50–89   ● 90–100

- Lighthouse scores above 91 on desktop
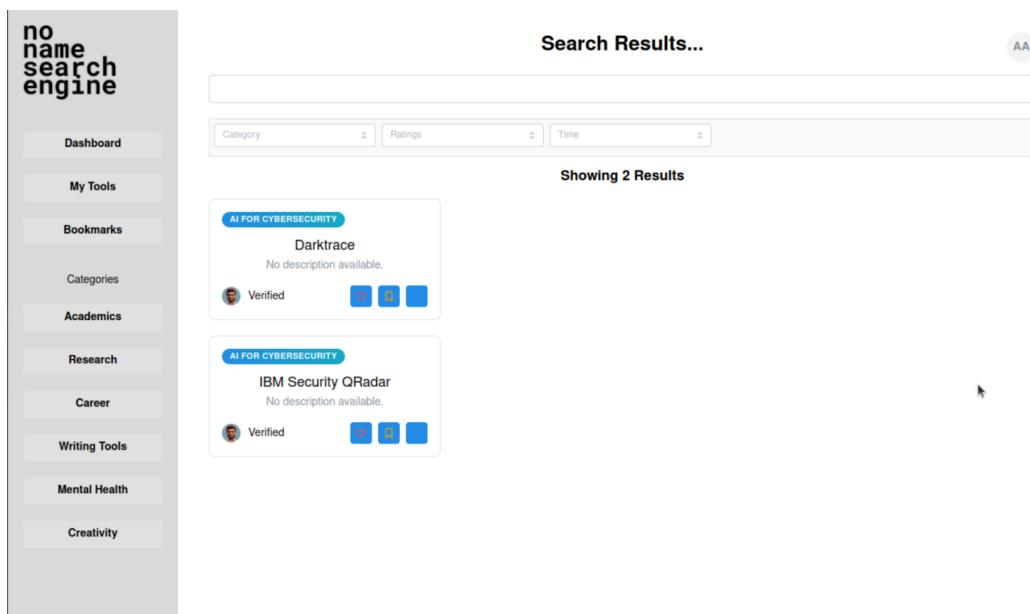- Layout remains stable when resizing the browser window

UI:
- Removed unwanted name from welcome message
- Fixed the look of the filter bar

Before:

After:

● Made the filter section smaller so it takes up less space on the screen
● Made it fully functional with dropdown menus, and it shows the user what filter options were selected when clicked on.