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Document Type

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My Final Project Website

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1 Type of Website and Purpose

The site created in the current project is a fan-built informational center with a support of the game League of Legends. It is designed to introduce novice-friendly champions, offer hints on the gameplay and enable users to sort champions by role.

The site is targeted at the new or casual players who would like to have fast and simple information without being bombarded. The project is aimed at clean structure, ease of access as opposed to elaborate functionality.

2 HTML and CSS Features Used

HTML Features

The website uses modern HTML5 semantic elements to improve structure, readability, and accessibility, including:

- `<header>`, `<nav>`, `<main>`, `<section>`, and `<footer>` for clear page structure
- `<article>` for individual champion cards
- `<button>` and `<a>` elements with proper ARIA labels
- `` elements with descriptive alt attributes
- `<form>` elements with labels and placeholders (on the Contact page)
- Modal and accordion markup following Bootstrap accessibility guidelines

CSS Features

Custom CSS was used extensively alongside Bootstrap to create a unique visual style:

- CSS variables (`:root`) for consistent color theming
- Custom color contrast fixes for dark backgrounds
- Hover and focus states for buttons and links
- `box-shadow`, `border-radius`, and `backdrop-filter` for visual depth
- Media queries for minor responsive refinements

- Custom styling for Bootstrap components such as cards, accordions, and buttons

3 Bootstrap Components Used

Bootstrap 5 was used to speed up development and ensure consistency. The following Bootstrap components were implemented:

- Navbar (responsive with collapsible menu)
- Grid system (row, col-*) for layout structure
- Cards for champion spotlights
- Buttons and badges for actions and roles
- Accordion for beginner tips
- Modals for detailed champion information
- Forms for the contact page
- Utility classes for spacing, alignment, and typography
- All Bootstrap components were customised using CSS to match the site's dark fantasy theme..

4 Responsiveness

The website was designed to be fully responsive across different devices:

- Bootstrap's mobile-first grid system ensures content stacks correctly on smaller screens
- The navigation bar collapses into a hamburger menu on mobile devices
- Cards automatically rearrange into fewer columns on smaller viewports
- Buttons and text remain readable and accessible on all screen sizes

Responsiveness was tested using:

- Chrome DevTools device emulation
- Mobile and desktop Lighthouse audits

5 Challenges Faced and Solutions

Challenge 1: Poor text readability on dark backgrounds

Some text elements such as champion names, social links, accordion text, and icons were initially hard to read.

Solution: Contrast was improved by adjusting text colors, increasing font weight, and modifying background opacity. Icons and accordion arrows were also styled to be more visible.

Challenge 2: Role filtering logic

Some champions had multiple roles (e.g. Mid / Support), which did not work with simple filtering.

Solution: JavaScript was updated to support both data-role and data-roles attributes, allowing accurate filtering for single and multi-role champions.

Challenge 3: Performance differences between mobile and desktop

Initial Lighthouse tests showed lower performance scores, especially on mobile devices.

Solution: Images were optimised, layout shifts were reduced, and unnecessary CSS was removed. Performance improved significantly, especially in desktop testing.

6 Learning Reflection

This project helped strengthen my understanding of:

- Semantic HTML and structured page layouts
- Bootstrap components and responsive design principles
- Accessibility requirements such as contrast, focus states, and ARIA labels
- Performance testing using Lighthouse
- Differences between mobile and desktop performance auditing

I also learned that visual design must always be balanced with usability and accessibility, especially when working with dark-themed interfaces.

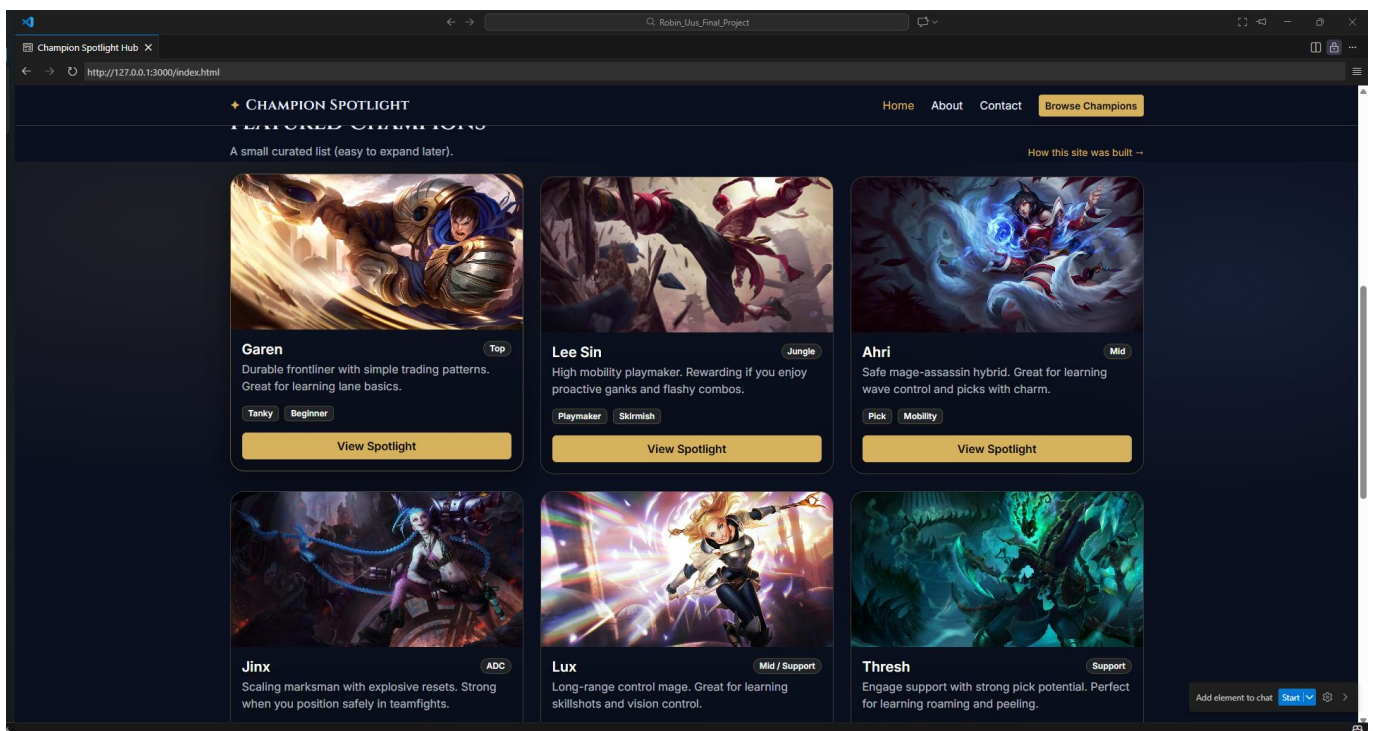
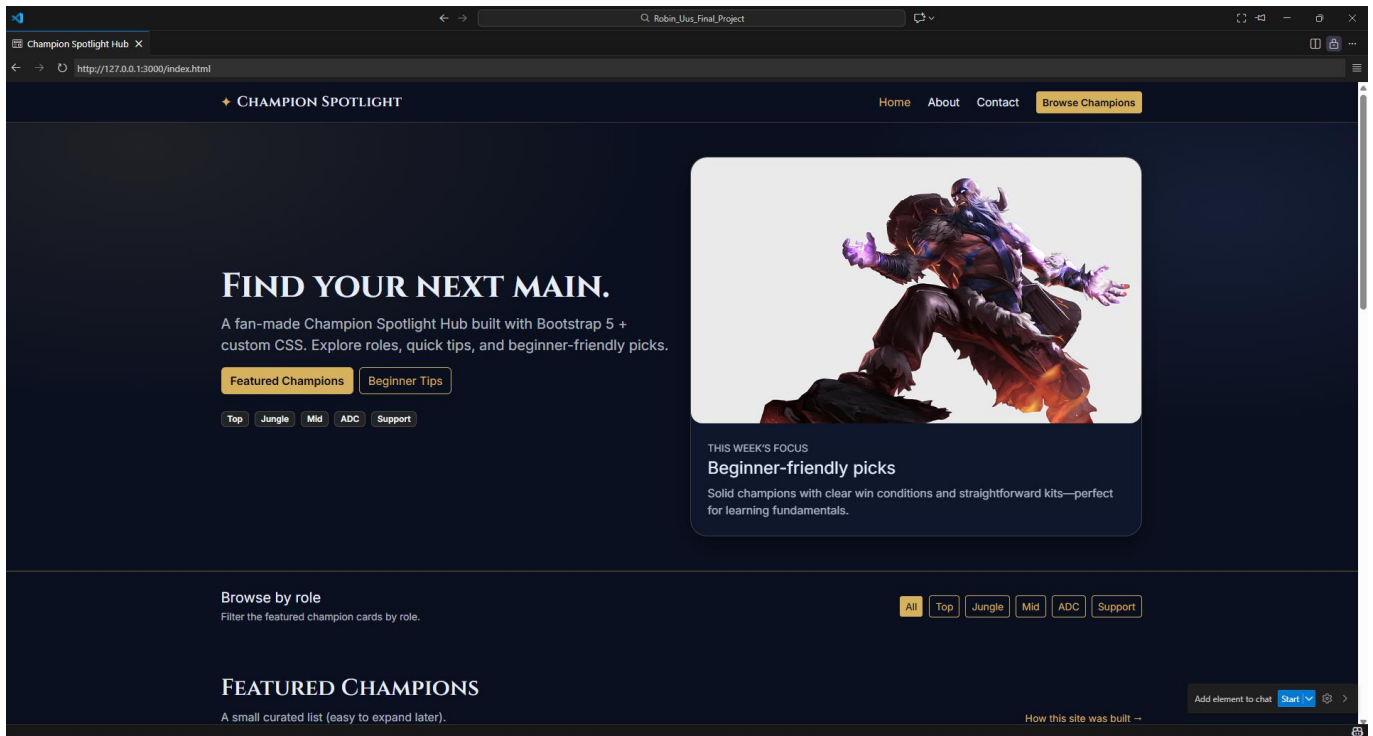
7 Self-Assessment

Self-assigned grade: 4.5 / 5

- I believe this project deserves a high grade because:
- All required features were implemented correctly
- The website is fully responsive and accessible
- Lighthouse accessibility score reached 100
- Performance was tested and improved through iteration
- The design is consistent, polished, and user-friendly

A perfect score was not given due to remaining performance improvements that could be achieved with further image optimisation and advanced loading strategies.

8 Appendix - Screenshots



ScalingTeamfightView Spotlight

PokeBurstView Spotlight

EngagePeelView Spotlight

BEGINNER TIPS

These are general gameplay tips.

1) Farm first, fight second

2) Wards win games

Place wards around objectives and common gank paths. Vision reduces surprise deaths and enables smarter plays.

3) Play around cooldowns

Want a champion added?

Send a request and I'll add a new spotlight card to the collection.

Request a Spotlight

© 2025 Champion Spotlight Hub — Fan-made project (not affiliated with Riot Games).
Built with Bootstrap 5, HTML, and custom CSS.

Add element to chatStart

CHAMPION SPOTLIGHT

HomeAboutContactBrowse Champions

Browse by role


Filter the featured champion cards by role.

AllTopJungleMidADCSupport

FEATURED CHAMPIONS

A small curated list (easy to expand later).

How this site was built →



Lee Sin

Jungle

High mobility playmaker. Rewarding if you enjoy proactive ganks and flashy combos.

PlaymakerSkirmish

View Spotlight

First name Surname

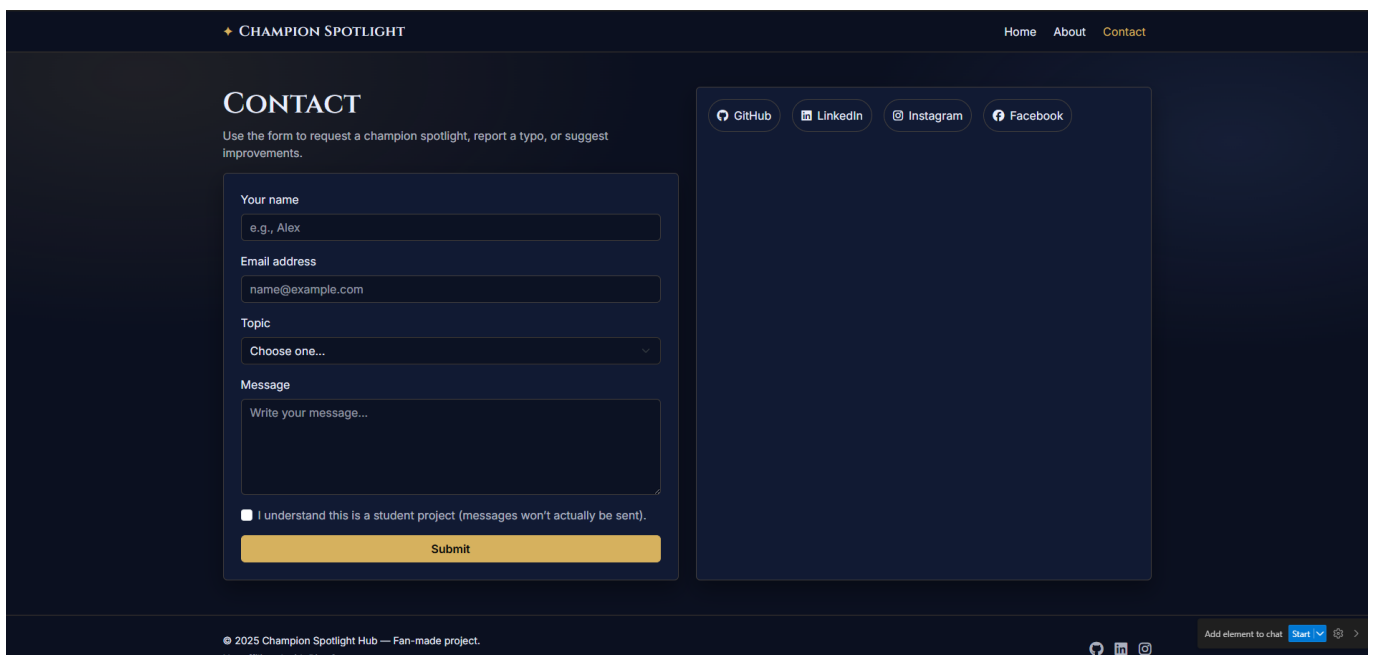
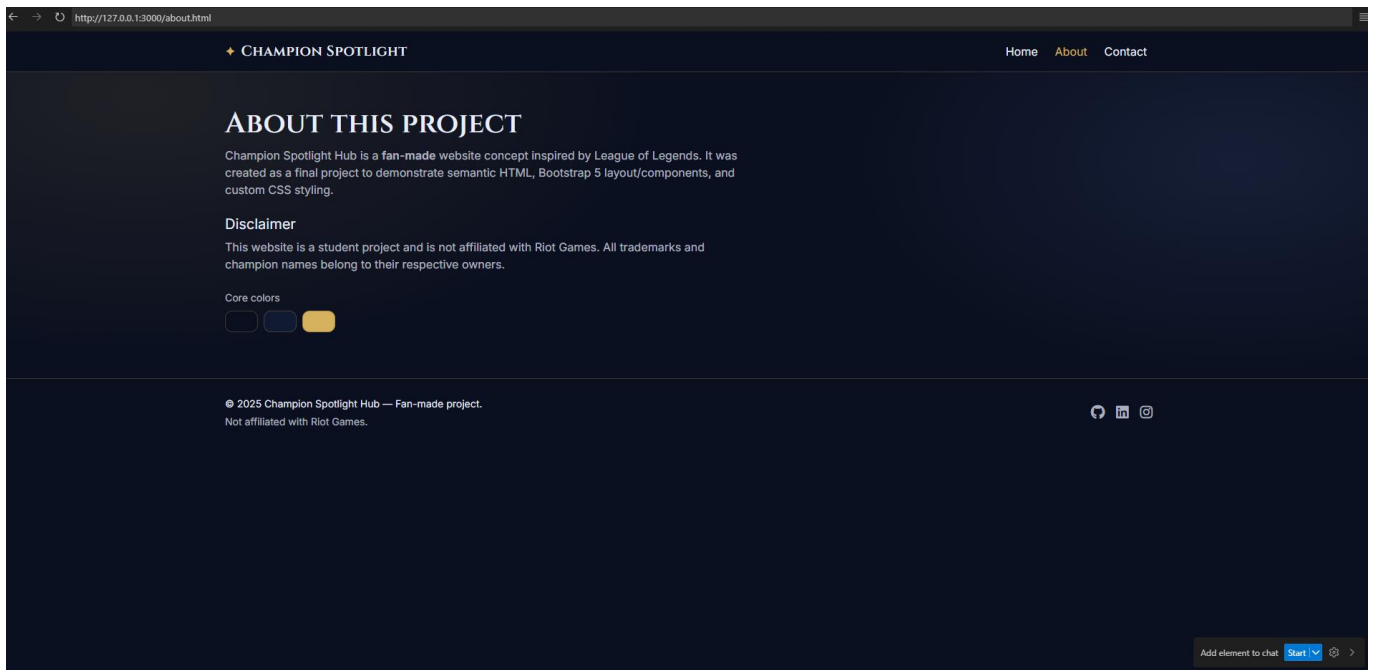
Document type

9 (12)

Study unit / Teacher's surname

Laurea University of Applied Sciences

Date when ready



The screenshot shows the Google Lighthouse interface in a browser window. The top navigation bar includes 'Elements', 'Console', 'Sources', 'Network', and 'Lighthouse'. The address bar shows the URL 'http://127.0.0.1:3000/index.html?serverWindowId=9a168eb8-463c-43a3-bb00-68543cebd...'. Below the address bar, four circular progress indicators show scores: 69 (orange), 100 (green), 79 (orange), and 91 (green). A row of eight thumbnail images is displayed below the scores. A green banner with a speaker icon contains the text: 'Later this year, insights will replace performance audits. [Learn more](#) and [provide feedback here](#).', with a 'Go back to audits' button. Below the banner, a filter bar shows 'Show audits relevant to: All FCP LCP TBT CLS'. The 'INSIGHTS' section lists several items with expandable arrows:

- ▲ Use efficient cache lifetimes — Est savings of 1,113 KiB
- ▲ Improve image delivery — Est savings of 957 KiB
- ▲ Render blocking requests — Est savings of 2,410 ms
- ▲ Font display — Est savings of 30 ms
- ▲ LCP request discovery
- ▲ Network dependency tree
- Document request latency — Est savings of 19 KiB
- Layout shift culprits
- Optimize DOM size
- LCP breakdown
- 3rd parties

