


Purpose of site

the purpose of the site is to host my class notes about CSE 142, and explain the topics about assembly language, computer architecture history, performance optimizations, C++ templates and interpreting code from assembly. the site intended to aid users to understand complex concepts and provide guidance on how to solve typical problems

Audience Considerations

Persona Diagram:



Name: Ale, James
Relevant Quote: "understanding compiler design is key to understand deeper in programming skills"

Demographics
Gender: Male
Age: 20
Location: San Diego, CA
Relationship Status: Single
Title: CS Student
Education: 3rd year undergraduate

Goals

- Understanding assembly language
- use and apply optimization techniques in projects
- help to learn the class and pass exams

Background Description
Ale is a CS student passionate about low level computer design and compiler design. He wants to get good grade on exam and in the mean time deepen the knowledge to apply the coursework knowledge in the future career

Motivations

- Help with homework and exams
- Improve skill on low level programming
- Develop coding skills for assembly language and compiler design

Expectations:

- Clear and accurate explanation of assembly language
- Practical problems to help on coursework
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Frustrations

- Difficulty in understanding assembly language
- Don't know how to debug the compiler and how does basic optimization work

Previous Experience:

- Completed introduction and intermediate high level programming courses
- Understanding on the mathematic foundation of bitwise operation
- Introductory to assembly language and C programming

site diagram

Homepage

index.html

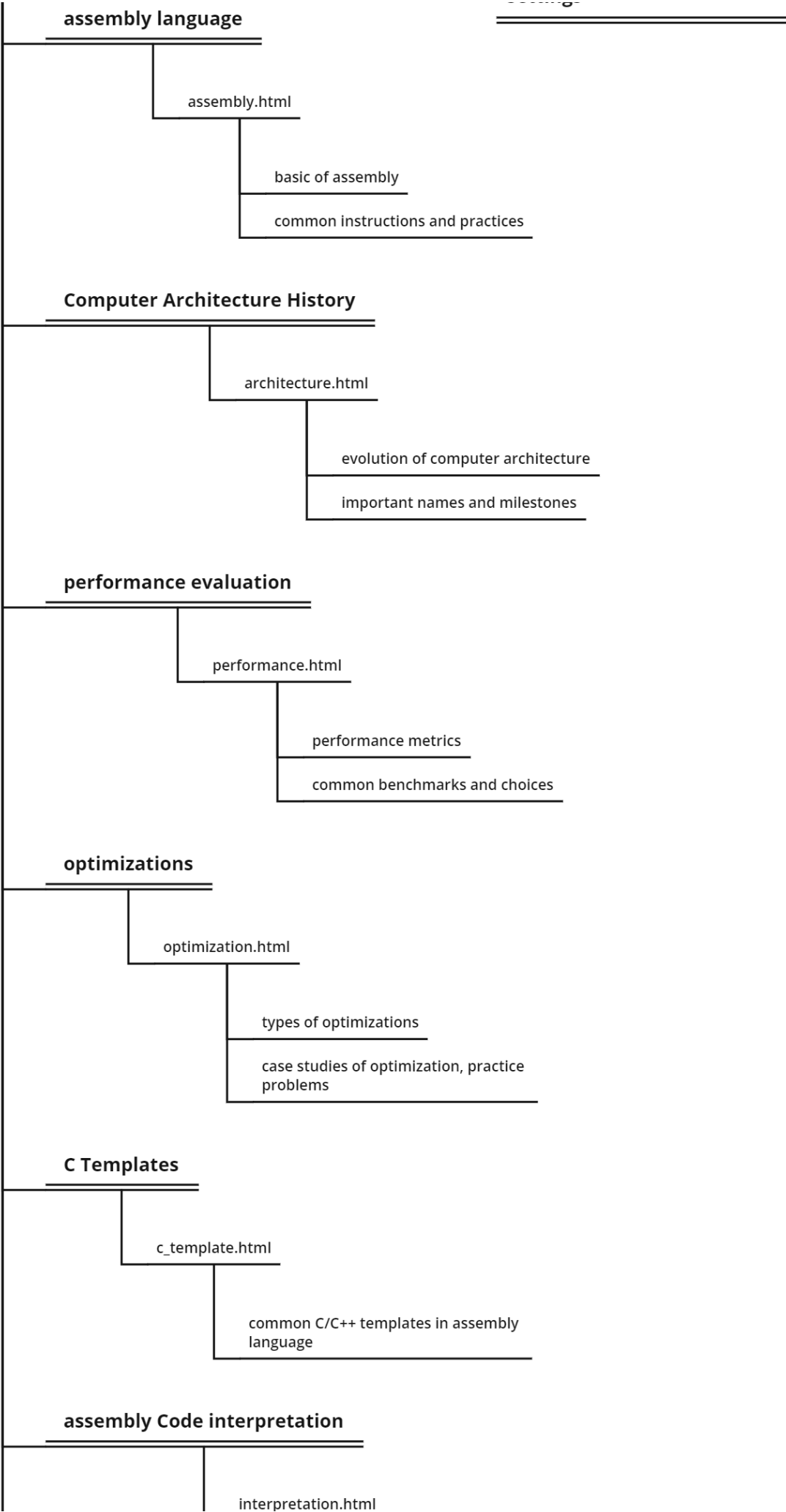
basics and overview

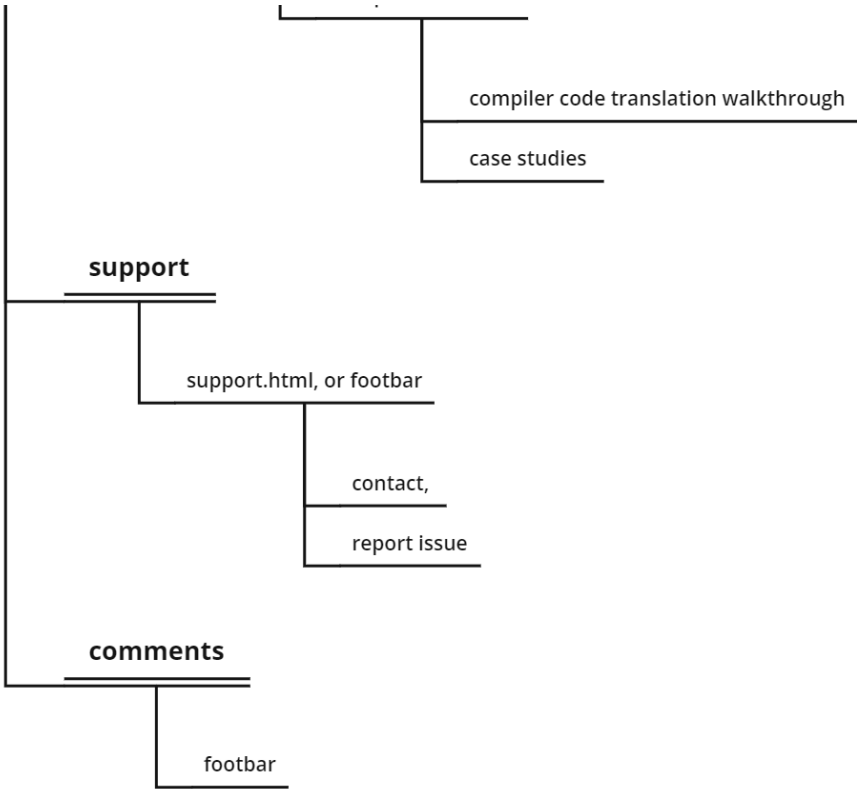
navigation links

about us

account management/login/settings

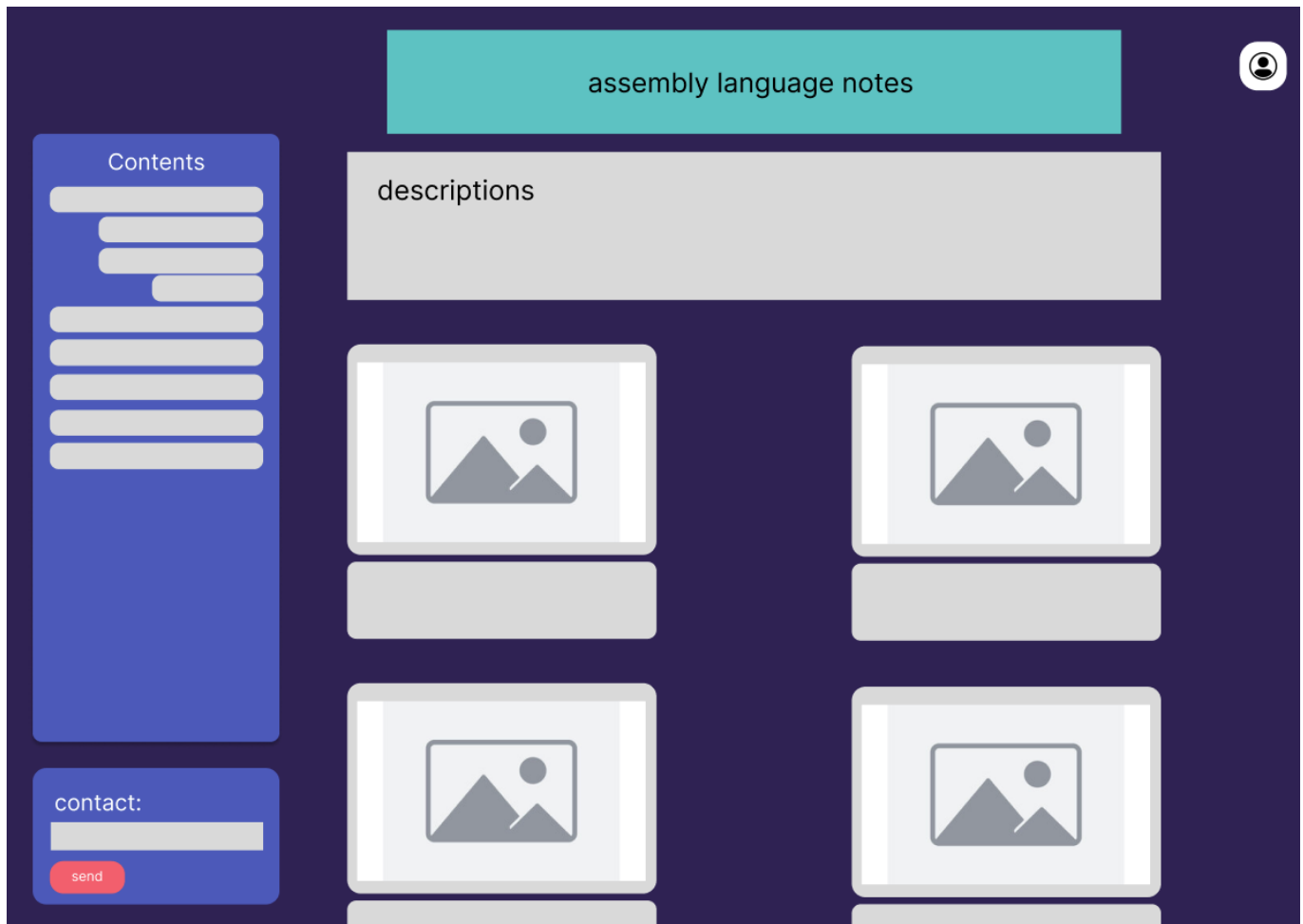
1 / 5





wireframes

Homepage Wireframe



Common page wireframe

404 page

content requirements

1. will be hosted on netlify
2. site will be built following the practice of progressive enhancement, therefore basic functionalities should be accessible and usable for users without JS/advanced CSS. the site will be using HTML for structure. in the future, we will use typescript instead of JS to ensure site reliability and code maintainability
3. github is used for version control and future collaborations
4. target version should to latest version of chrome, or the earliest version in each browser that supports all the HTML elements implemented in part 2
5. the site is intended for laptop view, but it should feature in responsive design to support mobile device and tablets, although with limited asethetic
6. any page should be less than 10mb, since there are many images to load.
7. the site should be accesible using only keyboard navigation

Content requirements

1. the site should contain text content, including class notes, lecture summaries, and others

2. there will be chart and images to support learning
3. some sample questions to provide practice examples
4. external links for reference and further explanation

link to site: <https://cse134-hw2-kiminus.netlify.app/>