

Final Project Design

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- Due Sunday by 11:59pm
- Points 40
- Submitting a file upload
- File Types doc, pdf, and docx
- Available Apr 8 at 12am - Apr 17 at 11:59pm

Assignment Goal

The goal of this assignment is to document your initial decisions on what software system to build, any necessary supporting technologies, and the database and program design. A design document should provide enough detail about the project for someone with at least an equivalent skill-level to be able to create it themselves.

You can find the Final Project Requirements here: [FinalProject.pdf](https://webcampus.unr.edu/courses/108048/files/13569452?wrap=1)
(<https://webcampus.unr.edu/courses/108048/files/13569452?wrap=1>)

Assignment Requirements

1. Outline the overall goal of your software system. (minimum 1 paragraph)
2. Enumerate your chosen tech stack, especially any elements outside of the required Python3 programming language and PostgreSQL database management system. (minimum 1-2 paragraphs)
 1. “Tech stack” refers to the set of technologies used to develop a system, including programming languages, frameworks, databases, front-end and back-end tools, and APIs.
3. Describe the intended infrastructure. (minimum 1 paragraph)
 1. This should refer to how you will host and run the system.
4. Identify any outside data sources and provide a plan for how they will be incorporated into the database. (minimum 1 paragraph)
5. Provide an Entity-Relational Diagram (ERD) for your database schema.
6. Provide a UML Class Diagram for your software.
7. Identify where they interact with each other.

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Criteria	Ratings					Pts
System Goal Outline the overall goal of your software system. (minimum 1 paragraph)	5 pts Exceeds Expectations	4 pts Meets Expectations	3 pts Approaches Expectations	2 pts Does Not Meet Expectations	0 pts No Marks	5 pts
Tech Stack Enumerate your chosen tech stack, especially any elements outside of the required Python3 programming language and PostgreSQL database management system. (minimum 1-2 paragraphs)	5 pts Exceeds Expectations	4 pts Meets Expectations	3 pts Approaches Expectations	2 pts Does Not Meet Expectations	0 pts No Marks	5 pts
Infrastructure Describe the intended infrastructure. (minimum 1 paragraph)	5 pts Exceeds Expectations	4 pts Meets Expectations	3 pts Approaches Expectations	2 pts Does Not Meet Expectations	0 pts No Marks	5 pts
Outside Data Sources Identify any outside data sources and provide a plan for how they will be incorporated into the database. (minimum 1 paragraph)	5 pts Exceeds Expectations	4 pts Meets Expectations	3 pts Approaches Expectations	2 pts Does Not Meet Expectations	0 pts No Marks	5 pts
ERD Provide an Entity-Relational Diagram (ERD) for your database schema.	15 pts Full Marks	12 pts Meets Expectations	9 pts Approaches Expectations	6 pts Does Not Meet Expectations	0 pts No Marks	15 pts
UML Provide a UML Class Diagram for your software.	2 pts Meets Expectations		1 pts Approaches Expectations		0 pts Missing	2 pts
Interactions	3 pts	2 pts		1 pts	0 pts	3 pts

Criteria	Ratings				Pts
Identify where they interact with each other.	Full Marks	Approaches Expectations	Does Not Meet Expectations	No Marks	
Total Points: 40					