

KNITS

Kuehne Nagel Information Technology School



Portfolio Project

Software Analyst Resources

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Analyst Goals



Visual Paradigm

- Document product domain with Entity Relationship Diagram
- Describe product main processes with Activity Diagram
- Describe system architecture with Deploy Diagram

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Entity Relationship Diagram and DB Design



Suggested Readings



ERD Introduction @ Visual Paradigm :

<https://www.visual-paradigm.com/guide/data-modeling/what-is-entity-relationship-diagram>



Intro and Styles of ERD (Dictionary of symbols)

<https://www.lucidchart.com/pages/ER-diagram-symbols-and-meaning>

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Entity Relationship Diagram and DB Design



Suggested Readings



Tutorial Step to Step from Database design to query

Part 1:

<https://towardsdatascience.com/designing-a-relational-database-and-creating-an-entity-relationship-diagram-89c1c19320b2>

Part 2:

<https://towardsdatascience.com/coding-and-implementing-a-relational-database-using-mysql-d9bc69be90f5>

Part 3:

<https://towardsdatascience.com/data-analysis-in-mysql-operators-joins-and-more-in-relational-databases-26c0a968e61e>

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UML Diagrams



Video resources:



Entity Relationship Diagram

Part 1:

<https://www.youtube.com/watch?v=QpdhBUYk7Kk&vl=vi>

Part 2:

<https://www.youtube.com/watch?v=-CuY5ADwn24&vl=en>



Activity Diagram

<https://www.youtube.com/watch?v=m8iwrEEP7A4>

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Learning Sources



Additional Resources

- Full course Software Analysis and Design

https://www.youtube.com/playlist?list=PLUgFMzuE8lQDLRhCNs19-RHpUY-_6ZI6Y

- UML Diagrams:

https://www.youtube.com/playlist?list=PL_RvSWlduMYEZd6M7M0e5vSM_e0Jw5hUJ

- Design and Implementation of Database:

https://www.youtube.com/playlist?list=PLLAZ4kZ9dFpMGXTKXsBM_ZNpJwowfsP49