The Architecture Process

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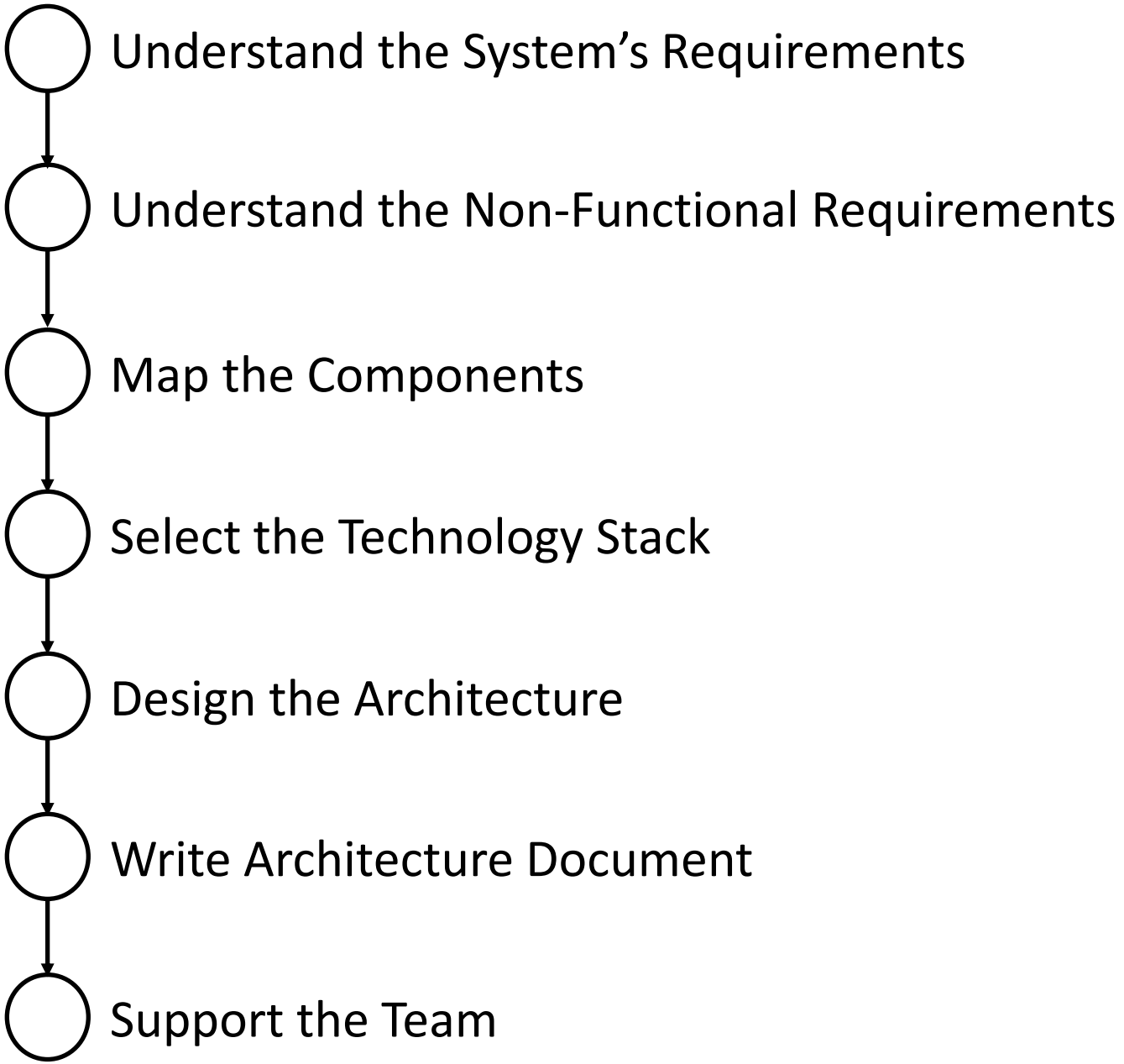
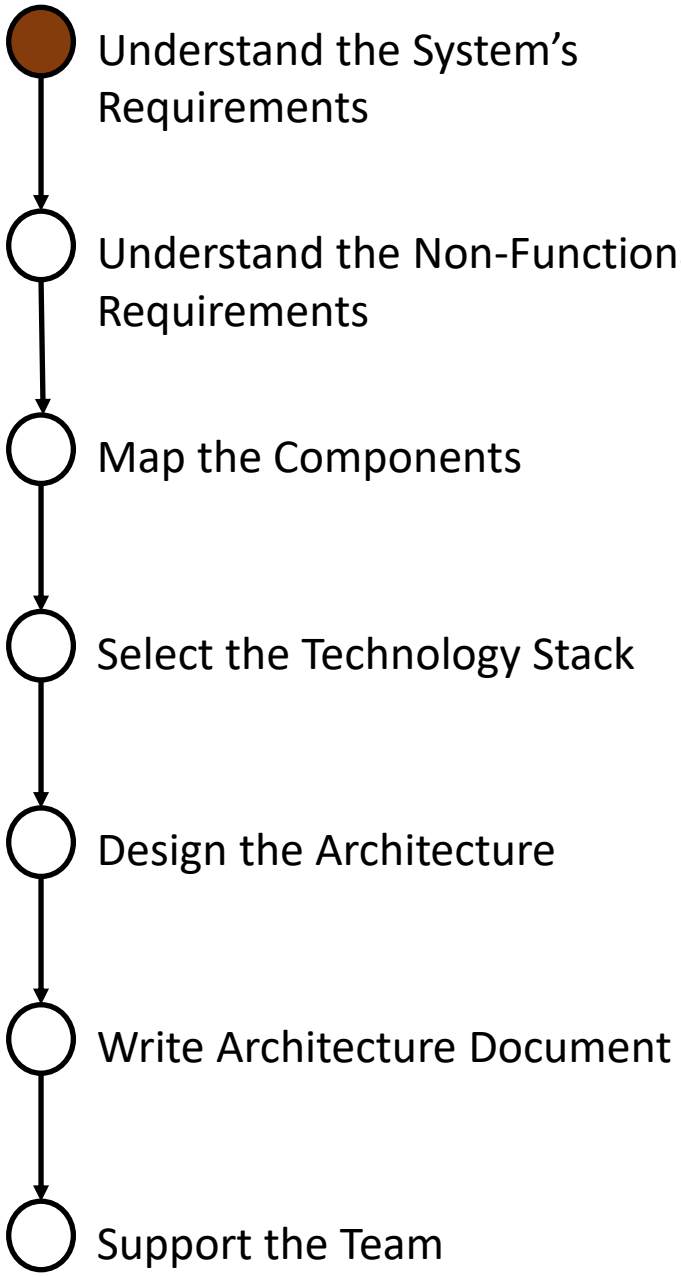


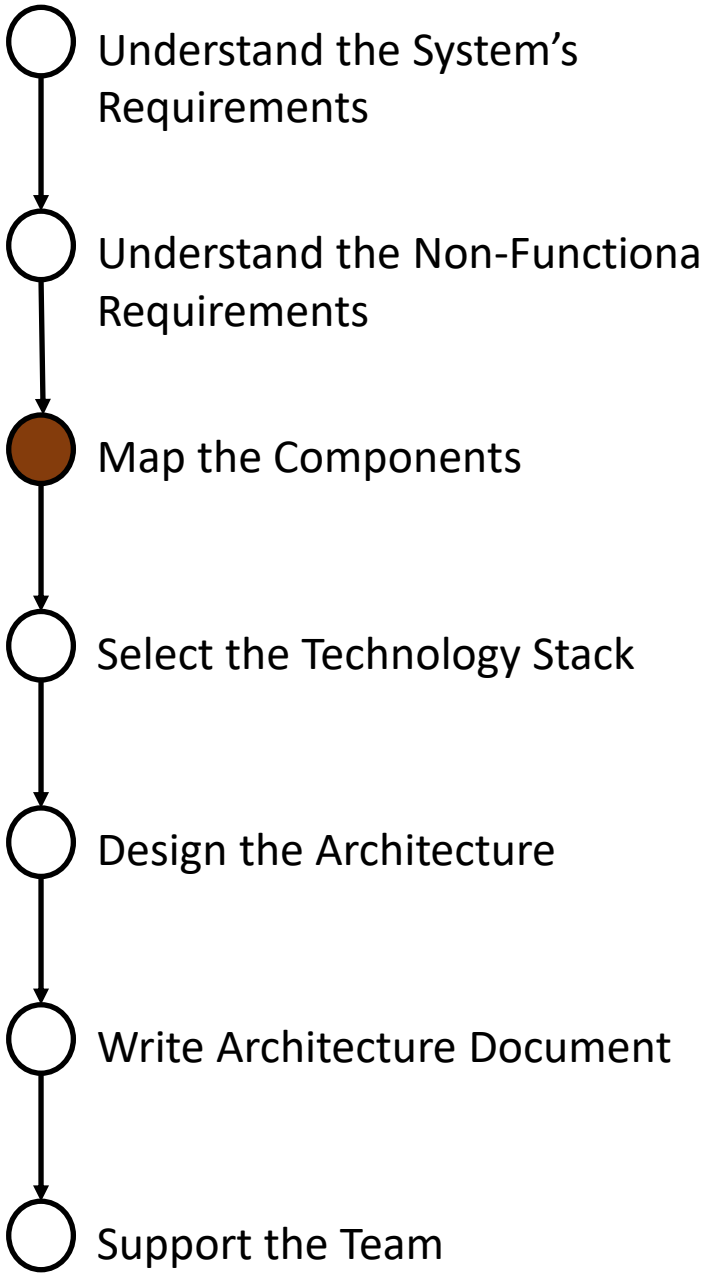


Understand the System's Requirements

- …right after setting the goals…
- Requirements = What the System Should Do
- Usually Defined by the System Analyst

Understand the Non-Functional Requirements

- Define Technical & Service Level Attributes
  - ie. # of Users, Loads, Volumes, Performance
- Not Always Known to the Client or Analyst
- Much More Important Than Regular Requirements



Map the Components

- Represent the Tasks of the System
- Two Goals:
  - Understand the System Functionality
  - Communicate Your Understanding to the Client
- Non-Technical

- Understand the System's Requirements
- Understand the Non-Functional Requirements
- Map the Components
- Select the Technology Stack
- Design the Architecture
- Write Architecture Document
- Support the Team

Select the Technology Stack

- Usually for Back End, Front End, Data Store
- A Lot of Factors, Choose Wisely!

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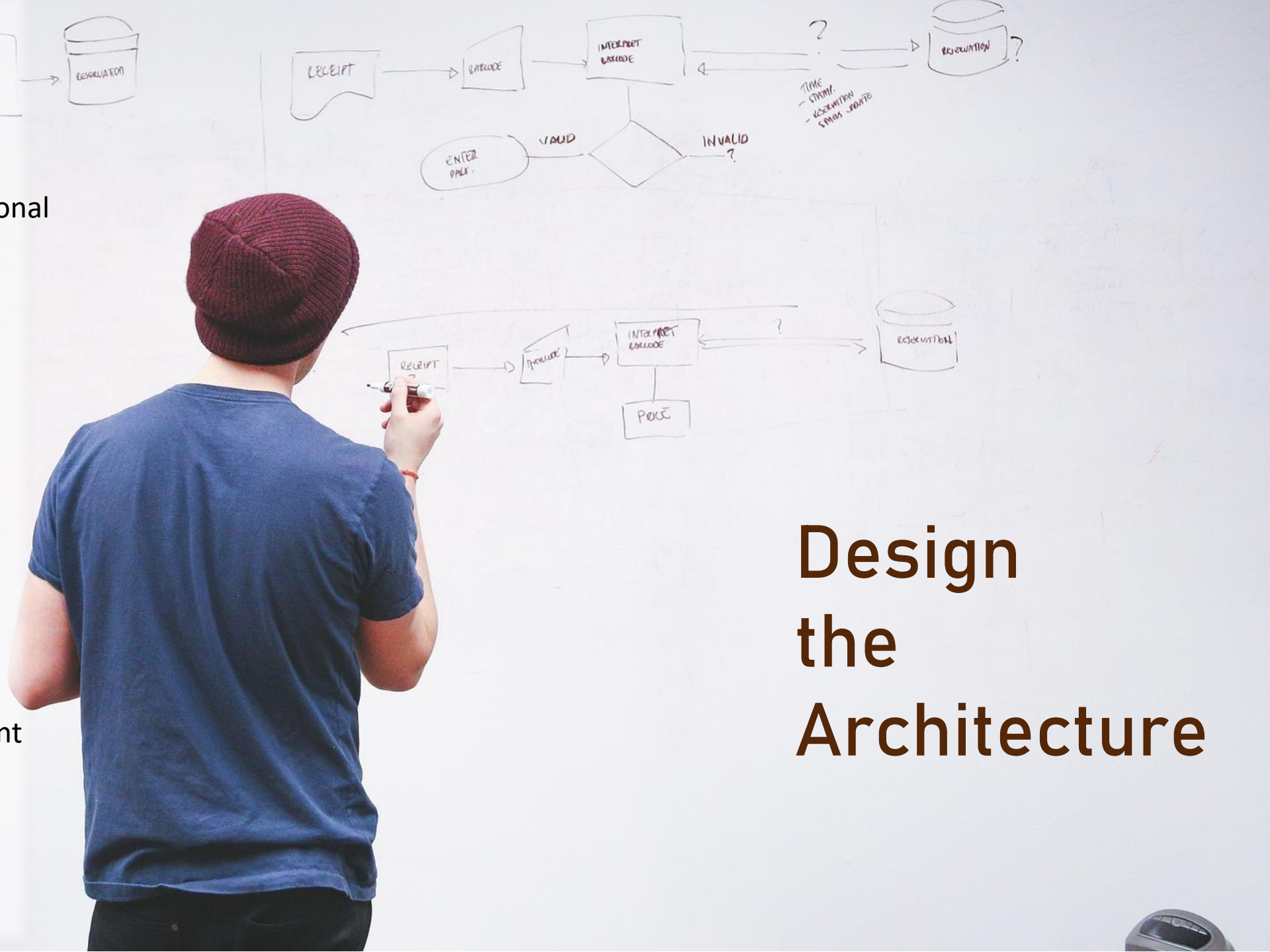

Design the Architecture

- Understand the System's Requirements
- Understand the Non-Functional Requirements
- Map the Components
- Select the Technology Stack
- Design the Architecture
- Write Architecture Document
- Support the Team

Write the Architecture Document

- Describes the Process and the Architecture
- Must be Relevant for All Participants

- Understand the System's Requirements
- Understand the Non-Functional Requirements
- Map the Components
- Select the Technology Stack
- Design the Architecture
- Write Architecture Document
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Support the Team

- The Architecture will change a lot
- Make sure it will stay relevant

Conclusion

- Learn about Unknown Scenarios Early
- Grow Ambassadors

1. Understand the System's Requirements
2. Understand the Non-Functional Requirements
3. Map the Components
4. Select the Technology Stack
5. Design the Architecture
6. Write Architecture Document
7. Support the Team

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