

# AGILE DEVELOPMENT

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CS-250

# Agile Roles

## Product Owner

- Represents the stakeholders and their requirements
- Supports the client and Development Team in completion of the project

## Scrum Master

- Provides guidance to team in Agile principles
- Facilitates all Scrum events
- Supports the Product Owner and Development Team

## Development Team

- Consists of Developers and Testers

# Software Development Lifecycle (SDLC)

## 1. Analysis

- Collaborate with stakeholders
- Gather all requirements

## 2. Design

- Define detailed process for functionality
- Define technologies, limitations, budget, time frames, and deadlines

## 3. Implementation

- Development begins
- Functionality are broken down into smaller increments

## 4. Testing

- Identifying and mitigating defects and issues
- Occurs simultaneously with development

## 5. Deployment

- Testing is complete and product is released

## 6. Maintenance

- Developers must implement new features and bug fixes that arise

# Agile vs Waterfall

- All Requirements are not required to be defined
  - Flexible
  - Best for complex projects
  - Leeway for uncertainty
- All requirements must be defined
  - Best for simple projects that do not change

# References

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