

Development Team Roles

IS 2020, America Web Services, Inc. or his affiliates. All rights review

Welcome to Development Team Roles.

What you will learn

At the core of the lesson

You will learn how to:

- Identify the different roles in a software development team
- · Identify the responsibilities of the project manager
- Identify the responsibilities of the analyst
- Identify the responsibilities of the quality assurance role
- · Identify the responsibilities of the software developer
- Identify the responsibilities of the database administrator

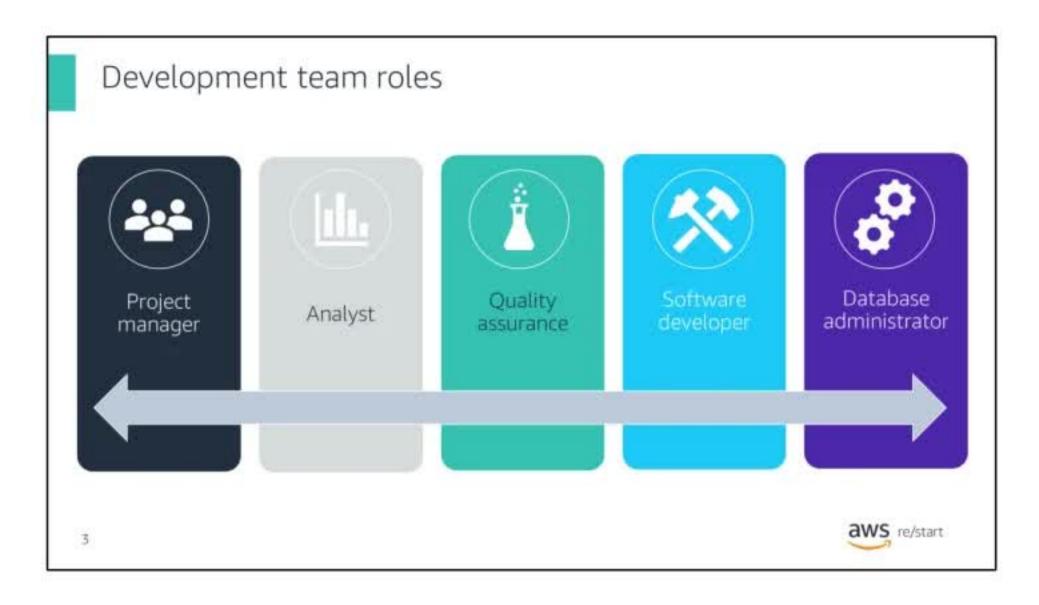




2

After completing this module, you should be able to:

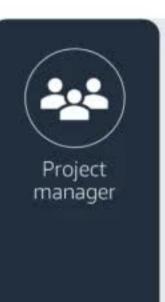
- · Identify the different roles in a software development team
- Describe general guidelines for effective development teams



To complete the Software Development Life Cycle (SDLC) in a successful and timely manner, development often takes place in teams. All team members have specialized roles that are designed to collaborate with each other.

Many teams are self-contained, where the team has enough technical expertise to accomplish the SDLC without relying on outside support.

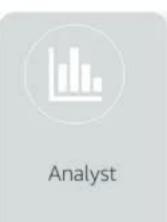
Project manager



- Is responsible for developing a project plan
- · Recruits staff to fulfill other roles
- Leads and manages the project team
- · Assigns tasks to different team members
- · Determines a timeline for the project
- Provides updates to upper management

aws re/start

Analyst



- Is sometimes called the business analyst or requirements analyst
- · Defines the purpose for each project
- · Gathers requirements from leadership, clients, and users
- Organizes requirements into tasks for developers and quality assurance (QA) to use for implementation and testing

aws re/start

5

Quality assurance



assurance

Using requirements, a quality assurance team member:

- Creates a list of tests that verify function, usability, efficiency, maintainability, and portability for each new requirement
- Maintains the list of tests that are needed to verify the behavior for each previously released feature
- Runs all tests and investigates any failures
- · Documents the steps to replicate bugs or issues in the application for the developer
- Assists in creating the acceptance criteria, which are the performance criteria that are used to measure successful completion of the application

aws re/start

6

Software developer



- Writes the code that makes up the application according to the specifications that the analyst provides
- · Maintains previous versions of the application if they are still supported
- Runs initial test cases to ensure that the product works
- Writes code to fix and address bugs or other issues that are reported to them

aws re/start

Database administrator



administrator

- Maintains the data that is needed in the application
- Is responsible for planning, maintaining, and configuring access to that data; and ensuring the availability of enough computing resources to make an application work correctly
- · Secures the data in the database
- · Backs up data (and restore data as needed)
- · Is responsible for database performance and optimization

aws re/start

Effective software teams

Because of the complexity of today's software applications, they are usually developed in teams. Effective collaboration can be the difference between a successful project and a project that fails.

Some general guidelines to follow include:

- · Translating goals into a clear definition of work
- Prototyping and iterating over designs
- Using version control software to keep track of changes
- Documenting important decisions and any required project knowledge
- Encouraging two-way feedback
- Using time wisely



9

Checkpoint questions Which team member tests an application? Which team member secures the data in the database? aws_re/start



- The roles that are involved in the development of software include
 - Project manager
 - Analyst
 - Quality assurance
 - Software developer
 - Database administrator
- Effective practices for developing software in a team include
 - Clearly defining and communicating the requirements
 - Documenting the design
 - Using version control

aws re/start

Some key takeaways from this lesson are listed here.

- · The roles involved in the development of software include -
 - Project manager
 - Analyst
 - · Quality assurance
 - Software developer
 - Database administrator
- · Effective practices for developing software in a team include s
 - Clearly defining and communicating the requirements
 - Documenting the design
 - Using version control