

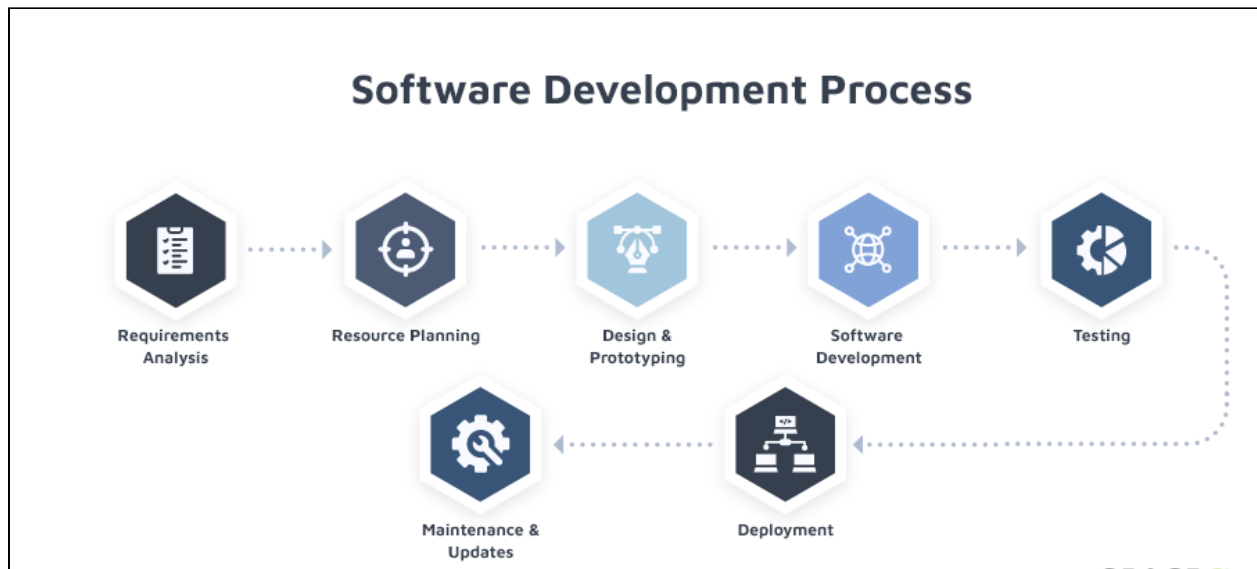
Software Development Process

Definition:

Software Development Process is dividing the software development into tiny, sequential steps to enhance the product, project, and design altogether.

The iterative logical process for software program development or application development to cater to the needs of any business or personal objectives is known as 'Software Development'.

6 Stages of Software Development Process



a. Requirements Analysis and Resource Planning

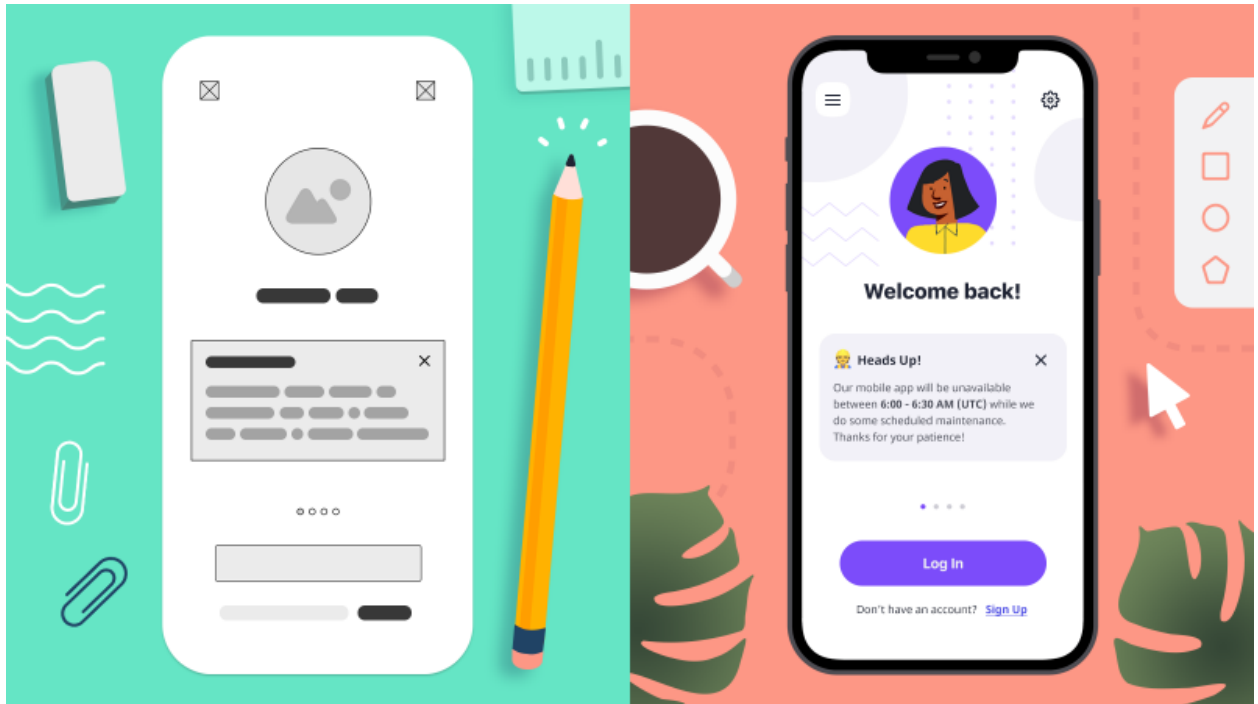
The first step to any process is always planning. You need to analyze if the software, you are planning to develop, aligns with your business or personal goals. This is a requirements analysis.

After this you need to allocate resources for the **software development process**, a number of project managers, software engineers, designers, tools, and technologies required for the project.

b. Design and Prototyping

You can define how the users will interact with the software application/product. The designers will design simple wireframes to show these interactions using various tools like **Adobe, Figma, and InVision**. You can also have complete prototypes that display each and every functionality of the product.

Low Fidelity Designs vs High Fidelity Designs:



c. **Software Development**

The development team starts working on the development of a program by writing the necessary code. This is the riskiest phase of the software development process.

d. **Testing**

Testing is done to check the functionality, usability, and stability of the product under the rapid development process. A team of quality assurance testers or QA testers is required for this task

Automation Testing vs Manual Testing
White box vs black box testing

e. Deployment

After coding and testing are done, the next development phase is to deploy your software on the necessary servers and devices.

f. Maintenance and Updates

After launching the product, the process is not complete. You need to keep a track of software maintenance and keep upgrading it.