



UTT

UNIVERSIDAD TECNOLÓGICA DE TIJUANA

GOBIERNO DE BAJA CALIFORNIA

TEMA: Planning of the process of development of software

PRESENTADO POR: Ramírez Aispuro Juan José

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MATERIA: Gestión del proceso de desarrollo de software

PROFESOR: Ray Brunett Parra Galaviz

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Planning the software development process is a critical activity that establishes the foundation for successful project execution. It involves defining objectives, determining the scope, allocating resources, and setting timelines to ensure the development team delivers a high-quality product that meets stakeholders' expectations.

Key Steps in Software Development Planning:

1. **Define Project Goals and Objectives:** Clearly articulate what the project aims to achieve, including the problems it intends to solve and the value it will provide to users.
2. **Develop a Project Timeline:** Establish a realistic schedule that outlines key milestones and deadlines, facilitating effective time management and progress tracking.
3. **Select the Appropriate Development Methodology:** Choose a software development methodology that aligns with the project's requirements and team dynamics, such as Agile, Waterfall, or Spiral models.
4. **Budgeting:** Estimate the financial resources required for the project, including costs related to personnel, tools, and infrastructure.
5. **Risk Management:** Identify potential risks that could impact the project and develop mitigation strategies to address them proactively.

6. **Define Software Requirements:** Gather and document detailed functional and non-functional requirements to guide the development process and ensure alignment with stakeholder expectations.
7. **Assemble the Development Team:** Identify the necessary skills and expertise required for the project, assign roles and responsibilities, and ensure effective communication among team members.
8. **Establish Milestones and Deliverables:** Set clear, measurable milestones and deliverables to monitor progress and maintain accountability throughout the development process.
9. **Plan for Testing and Quality Assurance:** Develop a strategy for testing the software to identify and resolve defects, ensuring the final product meets quality standards.
10. **Prepare for Deployment and Maintenance:** Outline the steps for deploying the software to the production environment and plan for ongoing maintenance and support post-deployment.

By meticulously planning each of these steps, organizations can enhance the efficiency and effectiveness of their software development process, leading to successful project outcomes and high-quality software products.