



**UTT**

UNIVERSIDAD TECNOLÓGICA DE TIJUANA

**GOBIERNO DE BAJA CALIFORNIA**

**Assignment:**

**Agile methodology selection**

**BY:**

**Daniel Chavez Madrigal**

**GROUP:**

**9-B**

**SUBJECT:**

**Desarrollo Móvil Integral**

**PROFESSOR:**

**Ray Brunett Parra Galaviz**

Tijuana, Baja California, 10 de enero del 2025

## **Agile Methodology Selection: Kanban for Mobile App Development**

**1. Introduction to Agile Methodology:** Agile methodology is an iterative and collaborative approach to project management and software development. It emphasizes adaptability, flexibility, and continuous improvement. Agile breaks projects into smaller increments, focusing on delivering value to customers in short cycles

**2. What is Kanban?** Kanban is an Agile framework that uses a visual board to manage tasks and workflow. It focuses on continuous delivery without fixed-length sprints, allowing teams to adapt to changes quickly and efficiently

### **3. Key Principles of Kanban:**

- **Visual Workflow:** Kanban uses a visual board to represent the workflow, with columns for different stages of the process (e.g., To Do, In Progress, Done). This helps teams visualize the work and identify bottlenecks
- **Limit Work in Progress (WIP):** Kanban limits the number of tasks in progress at any given time to ensure that the team focuses on completing tasks before starting new ones
- **Continuous Delivery:** Unlike Scrum, which uses fixed-length sprints, Kanban focuses on continuous delivery. Tasks are completed and delivered as soon as they are ready
- **Flexibility:** Kanban allows for more flexibility in handling tasks and priorities, making it easier to adapt to changing requirements and market conditions

### **4. Benefits of Using Kanban for Mobile App Development:**

- **Improved Efficiency:** By visualizing the workflow and limiting WIP, Kanban helps teams identify and eliminate bottlenecks, improving overall efficiency
- **Flexibility:** Kanban's flexible approach allows teams to adapt to changes quickly, making it ideal for fast-paced environments like mobile app development
- **Continuous Improvement:** Kanban encourages continuous improvement by regularly reviewing and optimizing the workflow
- **Transparency:** The visual board provides transparency into the status of tasks, making it easier for team members and stakeholders to stay informed

## 5. Challenges of Using Kanban for Mobile App Development:

- **Resource Management:** Managing resources effectively can be challenging, especially in larger teams
- **Scope Creep:** Without fixed-length sprints, there is a risk of scope creep if tasks are not managed properly
- **Team Coordination:** Requires strong coordination and communication among team members to ensure that tasks are completed efficiently

**6. Conclusion:** Kanban is a powerful Agile framework that can enhance the efficiency and flexibility of mobile app development teams. By visualizing the workflow, limiting WIP, and focusing on continuous delivery, Kanban helps teams deliver high-quality apps that meet customer needs and expectations.

## References:

*Agile methodologies: a key to successful mobile app development.* (n.d.). <https://www.turing.com/blog/agile-mobile-app-development-for-building-successful-apps>

*Agile methodology for mobile app development: why and how to use it | Merge Development.* (n.d.). <https://merge.rocks/blog/agile-methodology-for-mobile-app-development-why-and-how-to-use-it>