# SECURE SAAS SOFTWARE DEVELOPMENT PLAN

#### GOALS

- 1. Emphasize speed while keeping core security controls in place.
- 2. Protect high-risk areas like cloud storage, sensitive data, and file management.
- 3. Ensure flexibility in the system to support future features.

#### Development Phases

#### 1. Requirements Gathering

- 1) Focus on speed and user experience.
- 2) Collect security needs like multi-factor authentication and data encryption for sensitive areas.
- List acceptable risks and prioritize securing highrisk areas.

#### 2. Architecture Design

- 1) Design a flexible system with modular components.
- 2) Define boundaries around critical areas like user data and project management to control access.
- 3) Plan for secure connections between services to limit insider threats.

## 3. Threat Modeling

- 1) Identify high-risk areas, especially data breaches, malware, and insider misuse.
- 2) Use basic threat modeling to understand security weak spots.
- 3) Focus on major threats using the STRIDE model to address common risks.

### 4. Implementation

- 1) Add MFA for sensitive actions and access to important data.
- 2) Use encryption to protect data in transit and at
- 3) Work in short development cycles to maintain agility, addressing key security risks as they arise.

### 5. Testing

- 1) Use automated tests to quickly check security during development.
- 2) Perform penetration testing on high-risk areas, like cloud data storage.
- 3) Track and fix security issues quickly, prioritizing those affecting critical functions.

## 6. Deployment

- 1) Set up continuous deployment to release updates quickly while ensuring security checks.
- 2) Use secrets management for handling sensitive data like API keys.
- 3) Enable activity monitoring to detect suspicious actions in real-time.

## 7. Post-Deployment Maintenance

- 1) Implement incident response processes for quick action in case of data breaches or malware.
- 2) Use continuous monitoring to track activity in critical areas.
- 3) Regularly update software to patch vulnerabilities without slowing down innovation.