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# SUBSTACK+ SYSTEM DESIGN DOCUMENT

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## INTRODUCTION (SW)

The Substack+ app is designed to offer a user-friendly platform for both content publishers and readers. This document outlines the system design for Substack+, including key features, architecture, and components that ensure a seamless experience for all users.

The purpose of this document is to guide the development of the app by detailing the following:

- Class Diagram: A visual representation of the app's core classes and their relationships.
- Pseudocode: Logical breakdowns of key processes and algorithms used within the app.
- Statechart Diagrams: Diagrams illustrating how the app's components change states based on user interaction.
- Sequence Diagrams: Descriptions of interactions between different parts of the system over time.

The document also specifies the functional requirements of the Substack+ app, focusing on the following features:

- Messaging Tools: Enabling communication between publishers and readers through messages and notifications.
- Content Creation and Scheduling: Allowing publishers to create, edit, and schedule content.
- User Management: Managing user registrations, logins, and profiles.
- Security Protocols: Protecting user data and maintaining the integrity of the platform.

This document is intended to serve as a comprehensive guide for the development team, ensuring that all necessary features are systematically addressed, and the application is built to deliver a seamless and engaging experience for both publishers and readers. By adhering to the specifications outlined here, the development team can ensure a successful implementation of the Substack+ app, meeting both functional and user-experience goals.

## DESIGN-LEVEL CLASS DIAGRAMS (SW)

❖ DESIGNCLASSDIAGRAM.PDF

## PSEUDOCODE (SW)

❖ Pseudocode.pdf

## **STATECHART DIAGRAM (SW & OA)**

- ❖ Statechart.pdf
- ❖ statechart\_substack+.vsdx

## **SEQUENCE DIAGRAM (SW & OA)**

- ❖ SequenceDiagramPart1.drawio (SW)
- ❖ SequenceDiagramPart1.pdf
- ❖ UML\_Sequence\_Diagram.vsdx (OA)
- ❖ UML\_Sequence\_Diagram.pdf