Java Spring   
Security and Cloud

Baraian Tudor

Anca Giurgiu

Table of contents

Contents

[1. Introduction 3](#_Toc155572607)

[1.1. Project Overview 3](#_Toc155572608)

[1.2. Objectives and Scope 3](#_Toc155572609)

[1.3. Technologies Used 3](#_Toc155572610)

[2. Architecture Overview 3](#_Toc155572611)

[2.1. Description of the Controller-Service-Repository Architecture 3](#_Toc155572612)

[2.2. High-Level Component Diagram (if available) 3](#_Toc155572613)

[3. Security Implementation 3](#_Toc155572614)

[3.1. JWT Authentication Overview 3](#_Toc155572615)

[3.2. Security Configurations 3](#_Toc155572616)

[3.3. Account Management 3](#_Toc155572617)

[4. Front-End Implementation 3](#_Toc155572618)

[4.1. Description of HTML Endpoints 3](#_Toc155572619)

[4.2. Front-End Technologies and Frameworks 3](#_Toc155572620)

[5. Use Cases 3](#_Toc155572621)

[5.1. User Registration and Login 4](#_Toc155572622)

[5.2. Data Management (Today, Weekly, Monthly) 4](#_Toc155572623)

[5.3. Security Token Handling 4](#_Toc155572624)

[6. Class Diagram 4](#_Toc155572625)

[6.1. Detailed UML Class Diagram 4](#_Toc155572626)

[6.2. Description of Key Classes and Relationships 5](#_Toc155572627)

[7. Deployment Diagram 5](#_Toc155572628)

[7.1. Server and Client Deployment Overview 5](#_Toc155572629)

[7.2. Database and Application Server Configuration 5](#_Toc155572630)

[8. Development and Deployment 5](#_Toc155572631)

[8.1. Setup and Installation Instructions 5](#_Toc155572632)

[8.2. Configuration Settings 5](#_Toc155572633)

[9. Testing 5](#_Toc155572634)

[9.1. Unit and Integration Testing Strategies 5](#_Toc155572635)

[9.2. Test Cases and Results 5](#_Toc155572636)

[9.3. Future Work and Enhancements 5](#_Toc155572637)

[9.4. Planned Features 5](#_Toc155572638)

[9.5. Potential Improvements 5](#_Toc155572639)

[10. Conclusion 5](#_Toc155572640)

[10.1. Summary of Achievements 5](#_Toc155572641)

[10.2. Final Thoughts 5](#_Toc155572642)

# Introduction

## Project Overview

## Objectives and Scope

## Technologies Used

# Architecture Overview

## Description of the Controller-Service-Repository Architecture

## High-Level Component Diagram (if available)

# Security Implementation

## JWT Authentication Overview

## Security Configurations

## Account Management

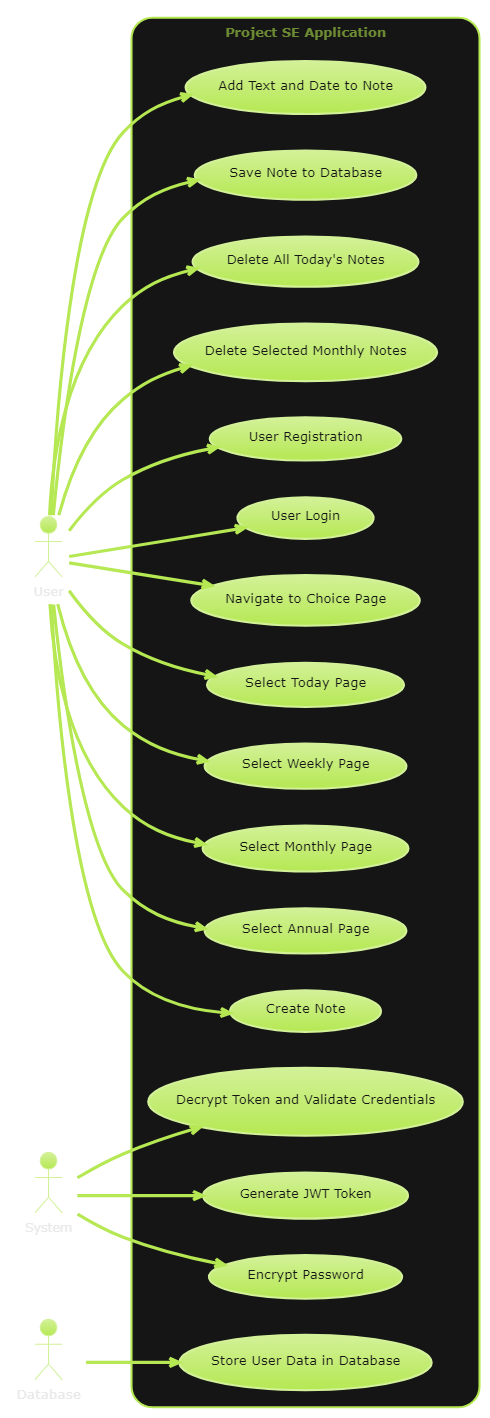
# Front-End Implementation

## Description of HTML Endpoints

## Front-End Technologies and Frameworks

# Use Cases

## User Registration and Login

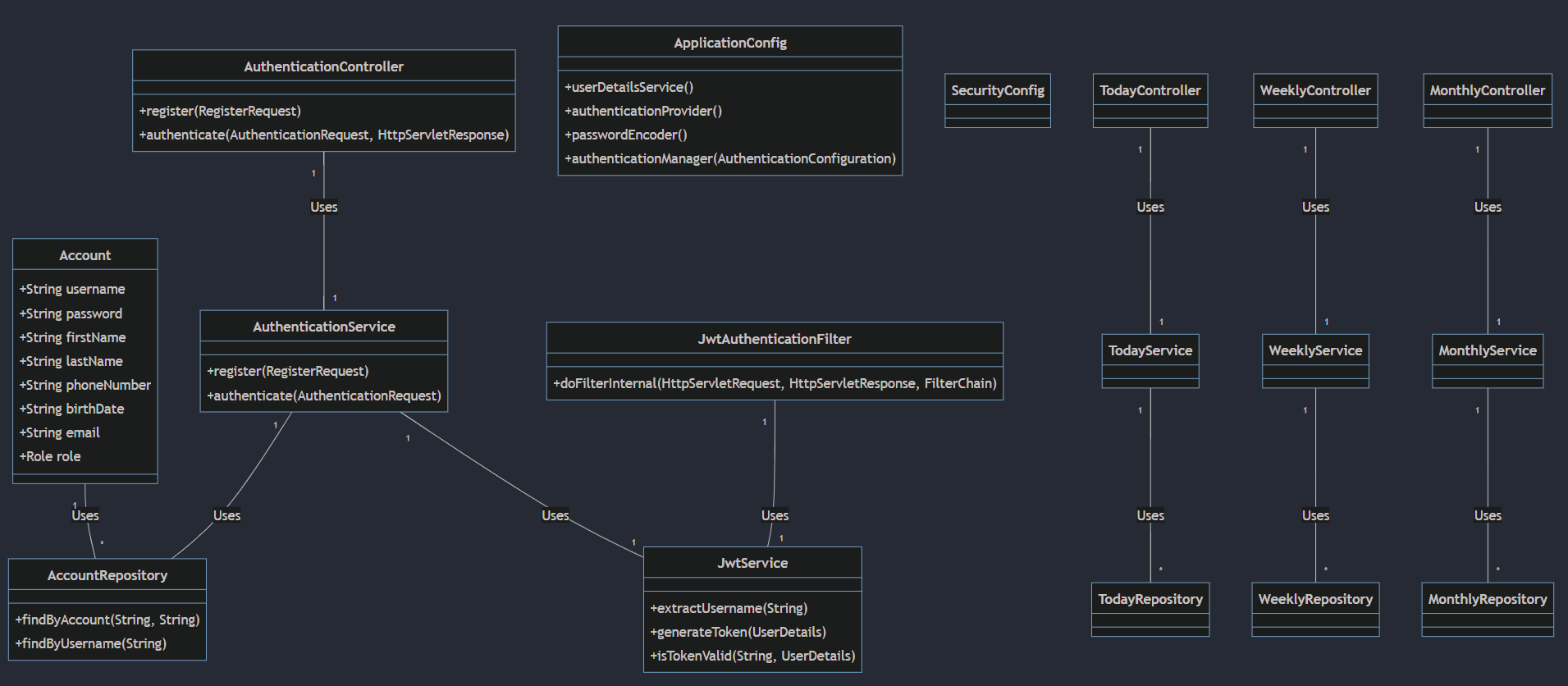


## Data Management (Today, Weekly, Monthly)

## Security Token Handling

# Class Diagram

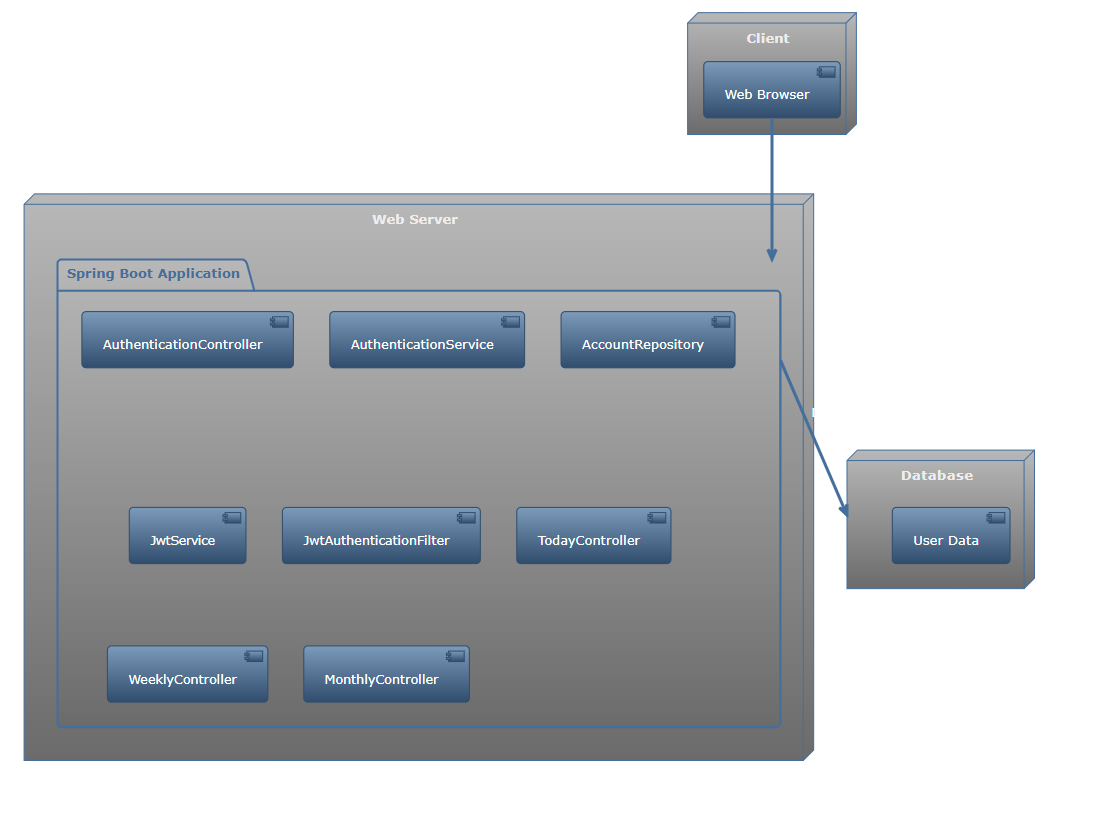
## Detailed UML Class Diagram



## Description of Key Classes and Relationships

# Deployment Diagram

## Server and Client Deployment Overview



## Database and Application Server Configuration

# Development and Deployment

## Setup and Installation Instructions

## Configuration Settings

# Testing

## Unit and Integration Testing Strategies

## Test Cases and Results

## Future Work and Enhancements

## Planned Features

## Potential Improvements

# Conclusion

## Summary of Achievements

## Final Thoughts