# Kim's Convenience Modern Cinema Release Plan

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# **APPROVALS**

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# **REVISION HISTORY**

Version	Date	Organization/Point of Contact	Description of Changes
1.0	10/10/2021	Ta Anh Duc	Baseline Version

# TABLE OF CONTENTS

1. INTRODUCTION	5
1.1. Purpose	5
1.2. Release Strategy	5
2. REFERENCED DOCUMENTS	5
3. OVERVIEW	6
4. ASSUMPTIONS, CONSTRAINTS, RISKS	7
4.1. Assumptions	7
4.2. Constraints	7
4.2.1. Time	7
4.2.2. Budget	7
4.2.3. Staff	7
4.3. Risks	8
5. RELEASE APPROACH	9
5.1. Rationale	9
5.2. Release Strategy	9
5.2.1. Release Content	9
5.2.2. Release Schedule	10
5.2.3. Release Impacts	11
5.2.4. Release Notification	11
6. ACRONYMS	11

# LIST OF FIGURES

Figure 1: Proposed overview of the system architecture of KCMC		6
	LIST OF TABLES	
Table 1:	Referenced Documents	5
Table 2:	Identified Risks	8
Table 3:	Release Version Content	9
Table 4:	Release Version Schedule	10
Table 5:	Palassa Notification	11

#### 1. INTRODUCTION

#### 1.1. Purpose

This document communicates the release procedure and implementation of the web application Kim's Convenience Modern Cinema (KCMC), developed by team Kim's Convenience. The main purpose of the release plan is to document the features and enhancements that will be included in upcoming release versions of the application, together with the release strategy and schedule for each release.

#### 1.2. Intended Audience

The intended audience of the Release Plan (RP) includes:

- Project Manager
- Release Manager
- Development Team
- Quality Assurance Team
- Sponsors

#### 2. REFERENCED DOCUMENTS

**Table 1: Referenced Documents** 

Document Name	Document Number	Issuance Date
Project Proposal	3.1	29/08/2021
System Requirement Specification	2.1	14/09/2021
Quality Plan	2.1	14/09/2021
Project Plan	1.4	01/10/2021
Risk Management Plan	1.1	06/10/2021

#### 3. OVERVIEW

KCMC is a movie booking web application integrated with a recommendation system. The recommendation system aims to provide personalised movie recommendations with the help of machine learning. The web application provides a clean and sleek user interface for users to navigate and book movies and is developed using Python's Django web development framework. Other features include user authentication and personalised movie recommendations based on previous watch history.

KCMC believes in creating a user experience that will seek to improve retention rate, which in turn translates to savings on customer acquisition through mainstream advertisements.

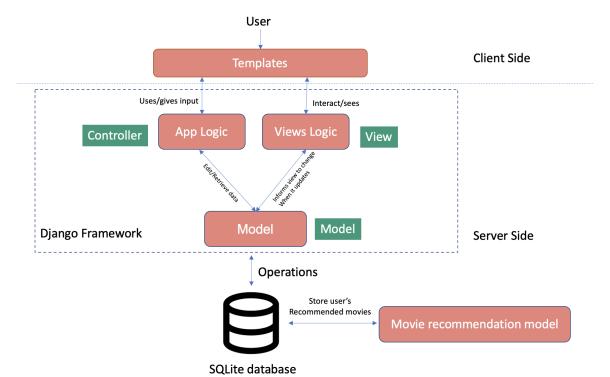


Figure 1: Proposed overview of the system architecture of KCMC

#### 4. ASSUMPTIONS, CONSTRAINTS, RISKS

#### 4.1. Assumptions

The development of KCMC was based on the following assumptions:

- Users' devices need to have Internet connection when using the web application
- All third party vendors' softwares used during the development of KCMC will maintain their current terms of use
- Releases with additional features and improvements will be rolled out in sync with users' feedbacks
- New major releases and patches will go through the same extensive testing to ensure compatibility of new functionalities with existing features

#### 4.2. Constraints

#### 4.2.1. Time

The project has an estimated timeframe of two months, which is broken into seven task phases, namely, planning, concept development, system-level design, detailed design, testing and refinement and production. In order to complete the project in time, careful planning is needed before the start of each task phase.

#### 4.2.2. Budget

Due to budget limitation, proper research is necessary to determine the accurate amount of required budget.

## 4.2.3. Staff

Proper planning and task assignment must be carried out due to the limitation in manpower. Highly specialized team members will be needed to ensure the quality and on-time delivery of the project.

## 4.3. *Risks*

Following is a list of risks that might be encountered by the team as well as proposed mitigation:

**Table 2: Identified Risks** 

Risk Description	Occurrence	Severity	Mitigation
Key personnel unavailable during time critical period	High	Serious	Get available personnel (i.e. working on low priority tasks) that understands task at hand to temporarily take over key personnel role
Possibility of single point failures, such as the application or the KCMC movie recommendation model malfunctions	Medium	Serious	Have modularity and portability in code design and dependencies so that modules can be independent shifted around
Software and hardware components used for development are not compatible(i.e. choosing a incomprehensive tech stack)	Medium	Catastrophic	Research extensively prior on the compatibility issues between components to be used as well as to ensure portability
Restructuring of organization such that separate teams (roles defined in the Project Proposal and further division of sub teams) are now working on the system	Low	Tolerable	Use of source code management and version control via Github for software control. Clear division of work and frequent check-ins (via text/call/internal presentations) for documentation.
Inaccurate estimations and deadlines that are either overly optimistic or unrealistic	High	Tolerable	Break the work down into smaller pieces/activities then perform estimation for a more accurate and realistic estimation through thorough discussions.

## 5. RELEASE APPROACH

#### 5.1. Rationale

KCMC will go through several stages of improvement throughout the design lifecycle of the application until the first release. To improve the performance, reliability and usability of the application, user's feedback will be collected with each release and be used as reference during the planning of the next release version.

After the initial public release (Version 1.0.0) with all the core functionalities of the project completed, the team will continue to provide additional patches to fix bugs and improve system performance and reliability.

#### 5.2. Release Strategy

The initial release of KCMC will provide the user with all the common functionalities of the application. Large amount of time and resources will be dedicated to the implementation of core features to ensure the quality of the initial version. Subsequent releases will provide fixes for bugs and programming errors identified in previous releases, introduce enhancement to existing functionalities or introduce new features to the application. Before each release, our team will conduct a thorough review to check that the application will work as intended and to ensure the highest quality of the system.

#### 5.2.1. Release Content

**Table 3: Release Version Content** 

Release Version	Description	Remarks
0.1.0	Implementation of common functionalities	Common functions include:  1. User registration, login 2. Viewing of booking history
0.1.1	Error and bug fixing	To fix identified errors and bugs based on the feedback of Release Version 0.1.0
0.2.0	Implementation of core function	Functions include: 1. View movies details 2. Check showtime and available seat 3. Book movies ticket

0.2.1	Error and bug fixing	To fix identified errors and bugs based on the feedback of Release Version 0.2.1
0.3.0	Implementation of additional functions	Functions include:  1. Movies recommendation for each user
0.3.1	Error and bug fixing	To fix identified errors and bugs based on the feedback of Release Version 0.3.1 and prepare for public release
1.0.0	First public release	The app is deployed for public

## 5.2.2. Release Schedule

**Table 4: Release Version Schedule** 

Release Version	Schedule(in development cycles)
0.1.0	1
0.1.1	1
0.2.0	2
0.2.1	1
0.3.0	2
0.3.1	1
1.0.0	1

#### 5.2.3. Release Impacts

There will be changes and modifications made to the application with each release. These changes may include bug fixes of previous versions, improvements of existing functionalities or introduction of new features.

To ensure the quality of the application, team Kim's Convenience will strive to minimise compatibility issues between releases. In the case that new features affect existing functionalities negatively or cause a significant change to the project schedule, the team will need to review the code integration process and decide on what action to take.

# 5.2.4. Release Notification

**Table 5: Release Notification** 

	Notification Method	Information	Timeframe for receipt of information
Team Members	<ul><li> Group chat</li><li> Emails</li><li> Meetings</li></ul>	<ul> <li>Improvement on existing functions</li> <li>Additional functions to be implemented</li> <li>Bugs and errors of current release</li> </ul>	Immediately after release decision is approved
Sponsors	• Emails	<ul> <li>Progress of the project</li> <li>Statistics regarding application usage</li> </ul>	1 weeks before release
Users	<ul><li>Social Media</li><li>Emails</li></ul>	<ul> <li>New functionalities</li> <li>Fixed bugs and improvement from previous release</li> </ul>	Day of release

#### 6. ACRONYMS

**KCMC** 

Kim's Convenience Modern Cinema