



Software Requirements Specification *for* TalkTionary: A Talking Urban Dictionary

PREPARED BY:
THE BACKBURNERS

Flores, Miguel Carlo
Sibugal, Czarina Daphne
Siron, Christian Dale
Talplacido, Daniel Eric





TalkTionary

A Talking Urban Dictionary

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Miguel Carlo Flores, Czarina Daphne Sibugal,
Christian Dale Siron and Daniel Eric Talplacido

1. INTRODUCTION

Welcome to the Talking Dictionary! This user-friendly desktop application, written in Python, brings a fresh approach to language exploration, offering a vibrant journey into the world of contemporary expressions and enhancing your vocabulary through dynamic definitions and lively pronunciations.

2. PURPOSE

The purpose of a talking dictionary is to transform language learning by providing an engaging, accessible, and user-friendly platform tailored to the dynamic and ever-evolving slang used by millennials and Gen Z on social media, especially for those who may face challenges with traditional written dictionaries.

2.1 DESCRIPTION

Talktionary is a desktop application designed to function as a talking dictionary. It allows users to enter a word and receive an audio

explanation of its meaning, pronunciation, and usage. The application's goal is to provide a user-friendly interface that includes accurate and authoritative definitions from credible dictionaries and linguistic resources.

- **Decode Slang Meanings:** Seamlessly explore the meaning, part of speech, and illustrative examples of contemporary slang terms. Gain a crystal-clear understanding of how the word is used in various contexts.
- **Immerse Yourself in Pronunciation:** Each slang definition comes alive with high-quality audio pronunciations delivered in natural-sounding voices, assisting in comprehension and refining your knowledge of trendy expressions.

2.2 FEATURES

- **Comprehensive Slang Definitions:** Gain in-depth understanding with detailed definitions, parts of speech, and illustrative example sentences for each slang you look up.

3.2 DEFINITION RETRIVAL

- Once a user inputs a slang term for lookup, the application shall retrieve and present the definition of the input slang term in audio format. This functionality is crucial for providing users with accurate and comprehensive information about the meaning, usage, and pronunciation of the slang term they are interested in.

3.3 PRONOUNCIATION GUIDEDANCE

- Pronunciation guidance is a crucial aspect of the TalkTionary application, aiming to assist users in accurately pronouncing slang terms by providing high-quality audio pronunciations. This functionality enhances users' comprehension of slang expressions and helps them confidently incorporate these terms into their vocabulary.

3.4 CUSTOMIZED OPTION

- Customization options allow users to personalize their experience within the TalkTionary application by selecting preferred voices and language settings for audio pronunciations. This functionality enhances user satisfaction and accommodates diverse preferences

and needs.

3.5 SEARCH FUNCTIONALITY

- Search functionality is a fundamental aspect of the TalkTionary application, enabling users to efficiently find and explore slang terms of interest. This functionality should be intuitive, responsive, and capable of handling a wide range of user queries.

3.6 OFFLINE FUNCTIONALITY

- Offline functionality is a key feature of the TalkTionary application, allowing users to access the dictionary even when they do not have an internet connection. This functionality ensures that users can continue learning and exploring slang terms anytime, anywhere, without being dependent on internet connectivity.

4. NON-FUNCTIONAL REQUIREMENTS

4.1 RESPONCE TIME

- The application shall aim to provide responses to user queries within a maximum acceptable time frame, typically measured in milliseconds or seconds.

4.2 RELIABILITY

- Reliability refers to the ability of the TalkTionary application to consistently retrieve accurate definitions from trusted sources and provide a reliable user experience without unexpected failures or errors.

4.3 ACCESSABILITY

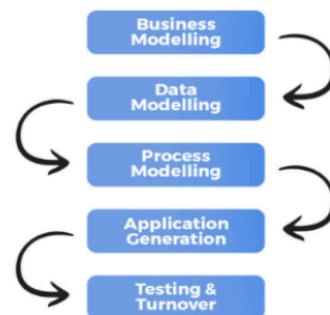
- Accessibility ensures that the TalkTionary application is usable by all users, including those with disabilities, by adhering to accessibility standards and providing features that facilitate access and usability.

4.4 SCALABILITY

- Scalability refers to the ability of the TalkTionary application to accommodate potential future updates and expansions, such as adding support for additional languages or integrating new features, without significant performance degradation or architectural constraints.

5. SOFTWARE DEVELOPMENT MODEL

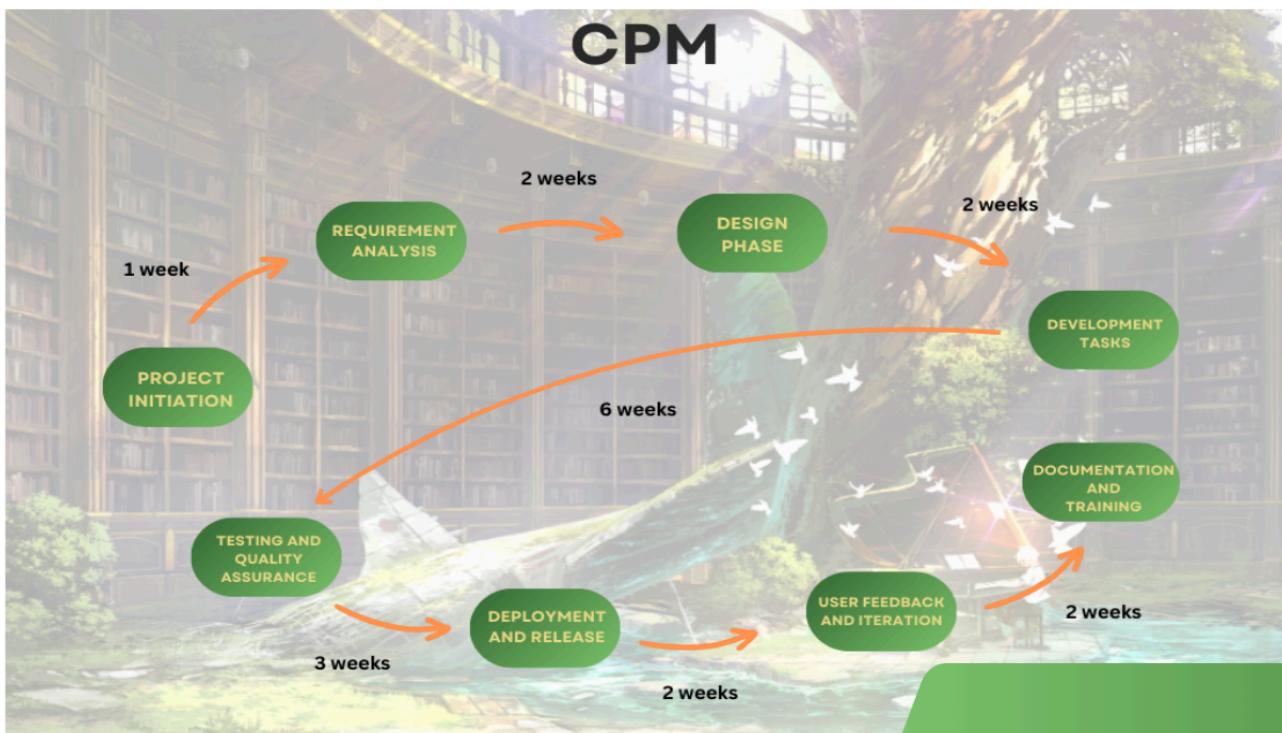
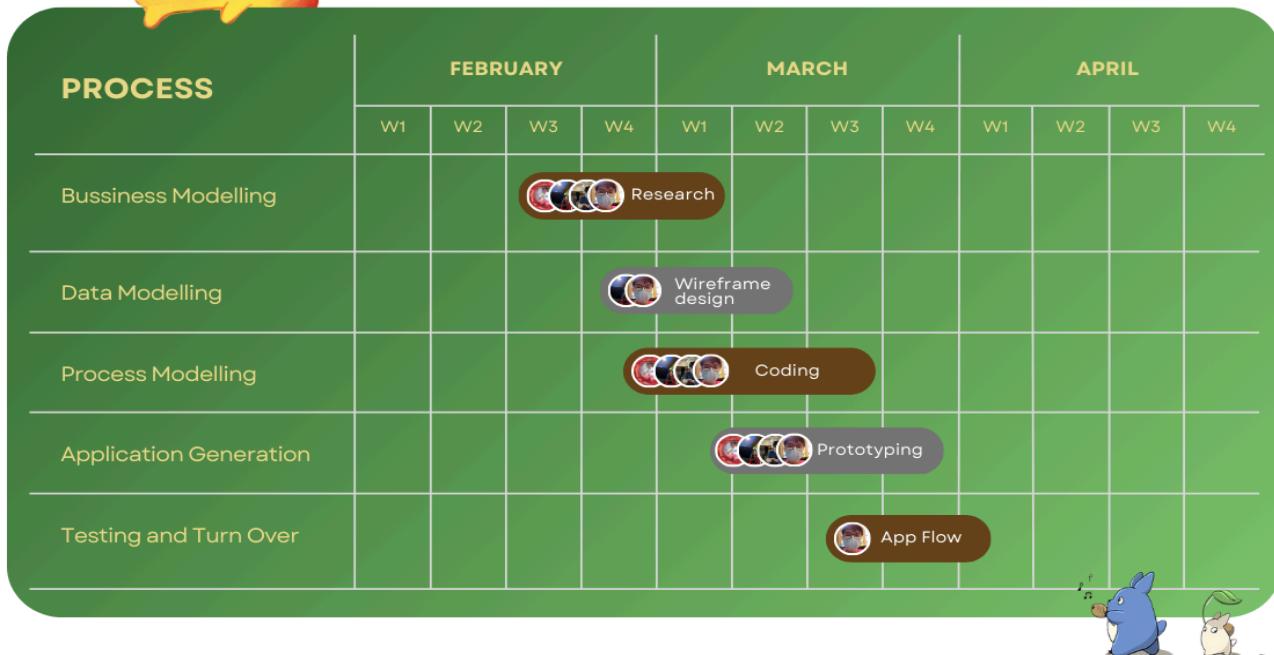
RAD Model Diagram



Rapid Application Development (RAD) is chosen as the software project model for TalkTionary due to its iterative and flexible nature, allowing for quick prototyping and continuous feedback from users. This model emphasizes active user involvement, rapid iterations, and incremental development, which aligns well with the dynamic and evolving nature of the language landscape targeted by TalkTionary.

6. PROJECT SCHEDULING & MANAGEMENT

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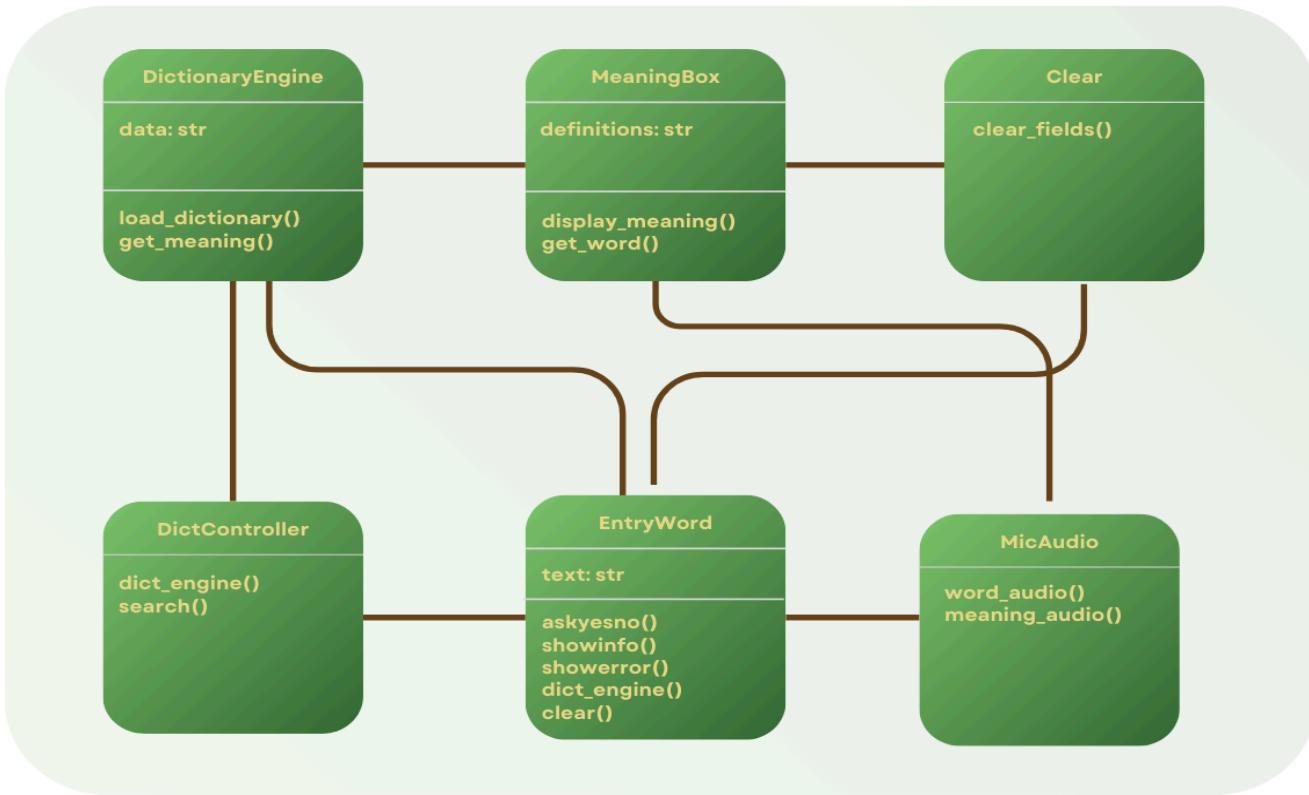


RISK INFORMATION SHEET

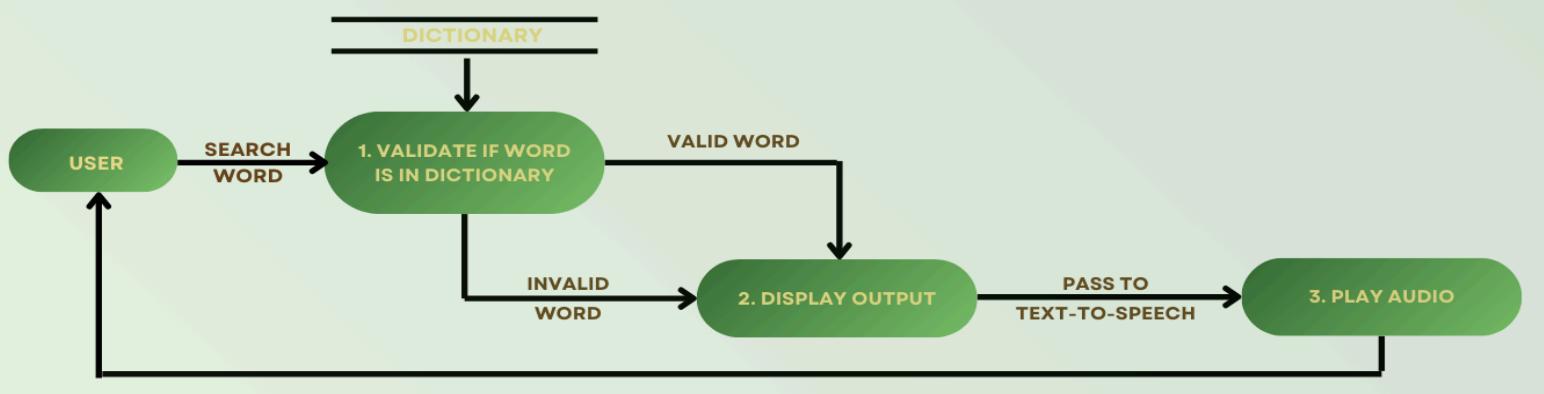
TECHNOLOGY DEPENDENCY

RISK ID:	TD-001	DATE:	02/29/2024	PROB:	50%	IMPACT:	60%
DESCRIPTION: <p>THE APPLICATION RELIES ON EXTERNAL TECHNOLOGIES SUCH AS PYTHON LIBRARIES (PYTTSX3), WHICH MAY UNDERGO UPDATES OR BECOME DEPRECATED, CAUSING COMPATIBILITY ISSUES.</p>							
REFINEMENT/CONTEXT: <ul style="list-style-type: none">WHILE PYTHON LIBRARIES ARE GENERALLY STABLE, UPDATES OR DEPRECATION OF LIBRARIES CAN OCCUR PERIODICALLY, ESPECIALLY FOR LESS MAINTAINED OR NICHE LIBRARIES LIKE PYTTSX3.COMPATIBILITY ISSUES WITH EXTERNAL LIBRARIES CAN LEAD TO DELAYS IN DEVELOPMENT, ADDITIONAL DEBUGGING EFFORTS, AND POTENTIAL REWORK TO ADAPT THE APPLICATION TO NEW LIBRARY VERSIONS.							
MITIGATION/MONITORING: <ul style="list-style-type: none">REGULARLY MONITOR UPDATES AND RELEASES OF PYTHON LIBRARIES USED IN THE APPLICATION.IMPLEMENT VERSION CONTROL AND ENSURE BACKWARD COMPATIBILITY WITH OLDER LIBRARY VERSIONS.HAVE A CONTINGENCY PLAN TO SWITCH TO ALTERNATIVE LIBRARIES IF NECESSARY.							
MANAGEMENT/CONTINGENCY PLAN/TRIGGER: <ul style="list-style-type: none">ALLOCATE ADDITIONAL TIME IN THE PROJECT SCHEDULE TO ACCOMMODATE POTENTIAL LIBRARY UPDATES OR COMPATIBILITY ISSUES.MAINTAIN A LIST OF ALTERNATIVE LIBRARIES OR TECHNOLOGIES THAT CAN BE QUICKLY ADOPTED IF NEEDED.TRIGGER FOR IMPLEMENTING CONTINGENCY PLAN: NOTIFICATION OF A CRITICAL UPDATE OR DEPRECATION OF THE PYTTSX3 LIBRARY.							
CURRENT STATUS: 03/05/2024: MITIGATION STEPS INITIATED							
ORIGINATOR: M. FLORES				ASSIGNED: E. TALPLACIDO			

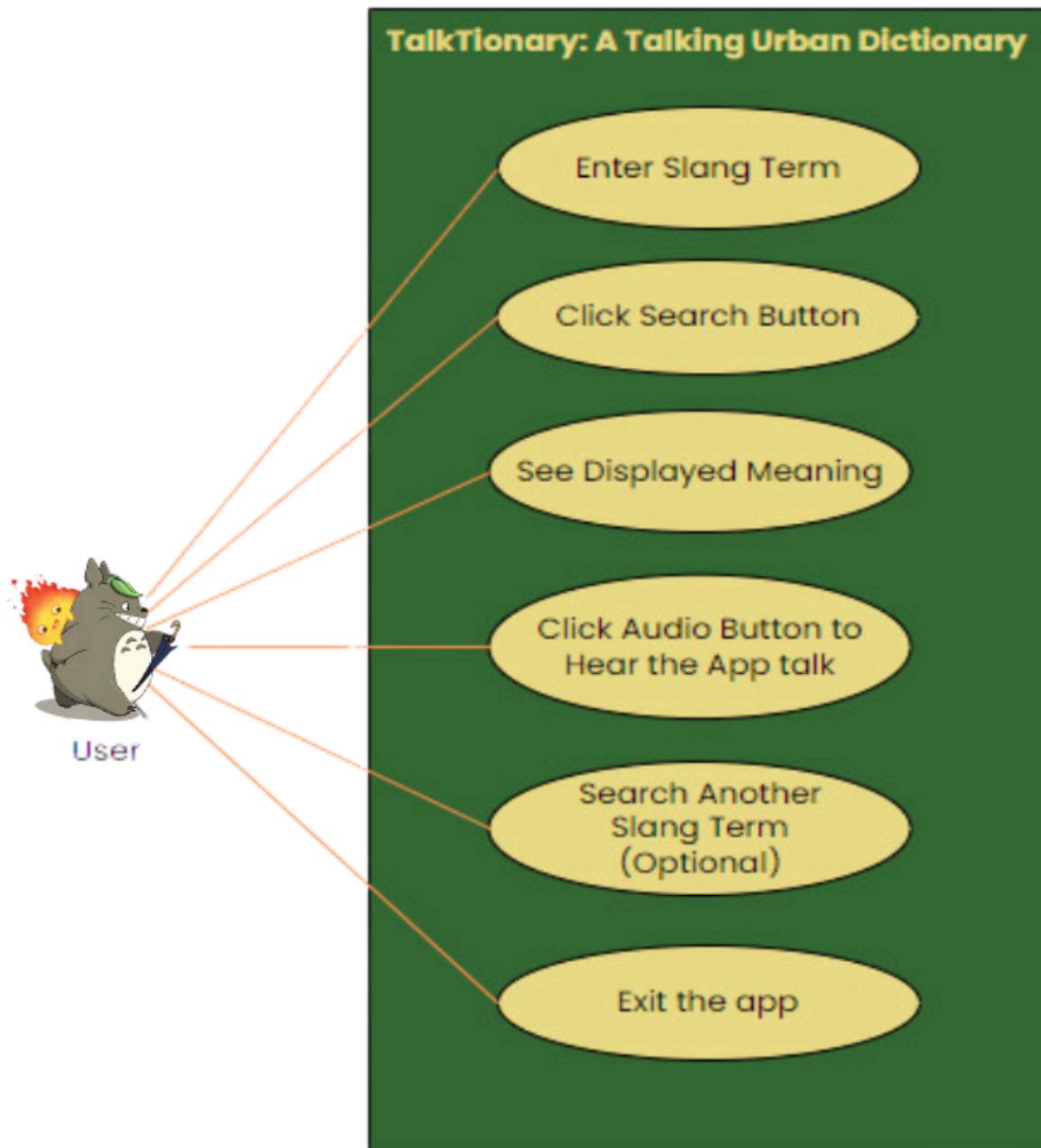
UML DIAGRAM



DATAFLOW DIAGRAM



USE CASE DIAGRAM



Member Contribution:

Flores, Miguel Carlo:

Document Layout & Organization, App Idea, Description, Gantt Chart, UML

Sibugal, Czarina Daphne:

Intro, Purpose, CPM Chart, UCD

Siron, Christian Dale:

Benefits, Features, Software process model, DFD

Talplacido, Daniel Eric:

Functional & Non-Functional Requirements, Software process model