Design Plan -

Speech Capture, Transcription, and Analysis App

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Abstract

In this document we will go over design choices and the aesthetic of the software.

TABLE OF CONTENTS

List of Figures 4

List of Tables 14

Introduction 15

GUI Design 16

Static Model 19

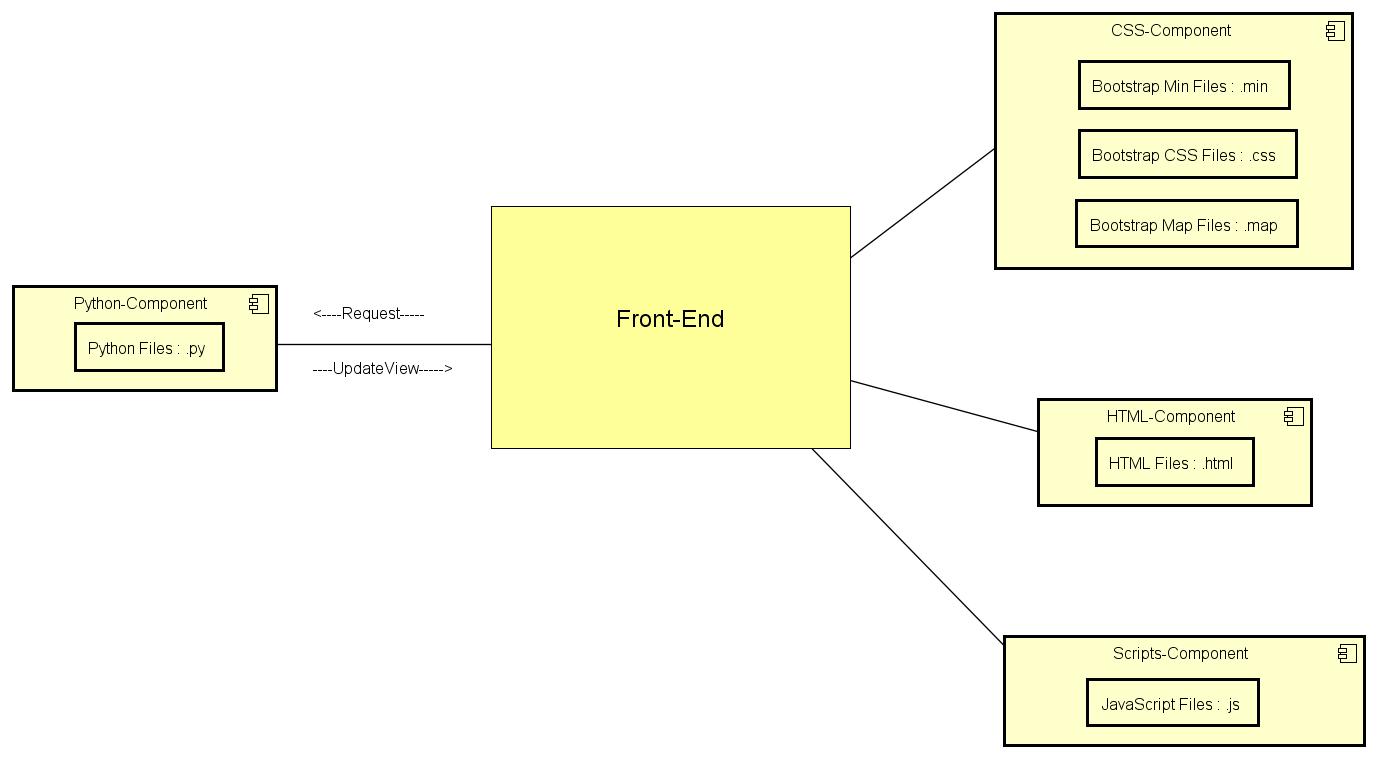
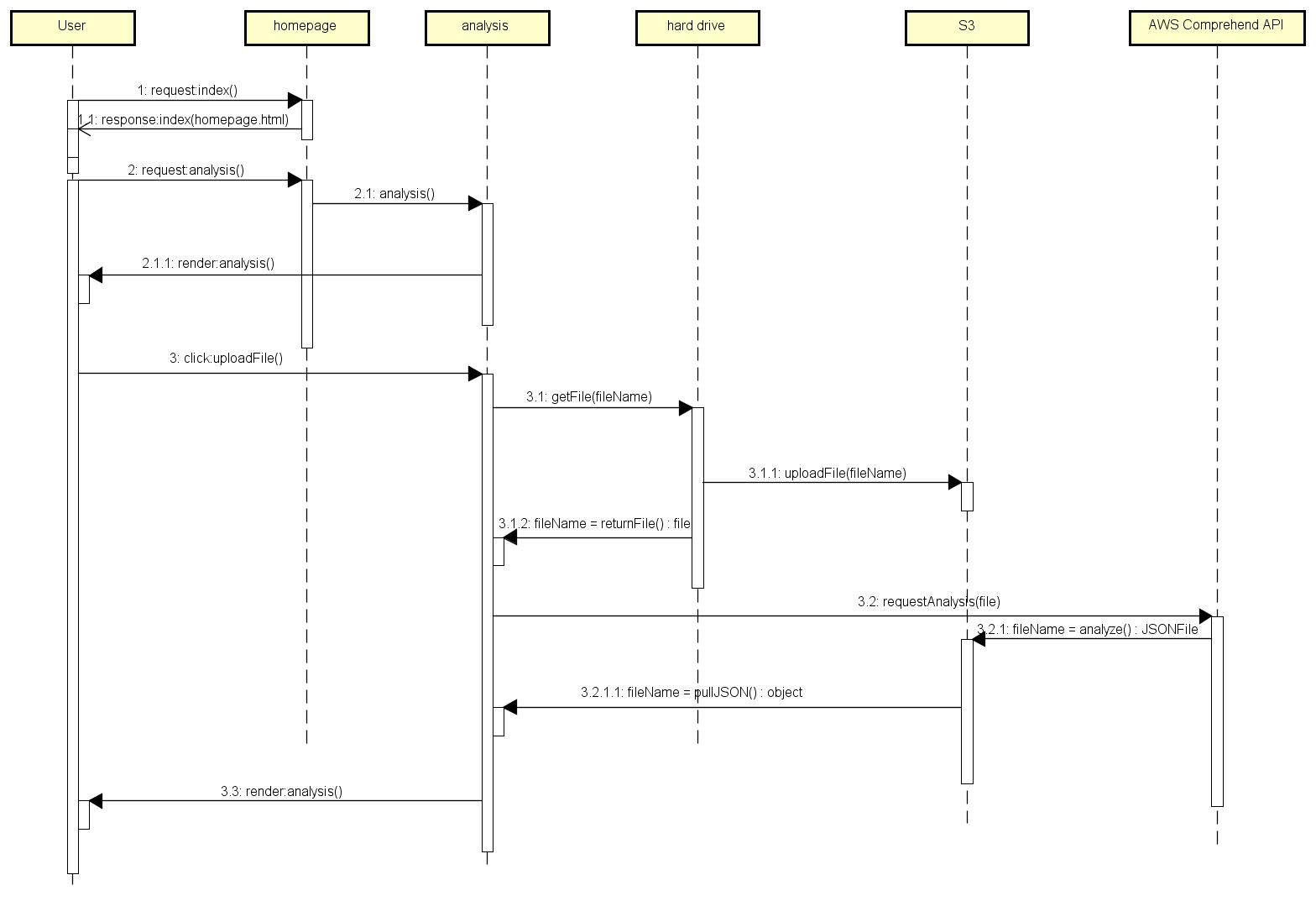
Dynamic Model 23

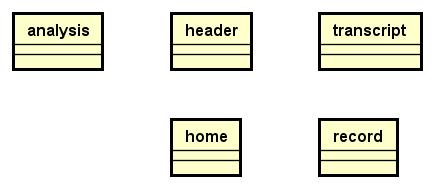
Rationale for Our Architectural Style and Model 26

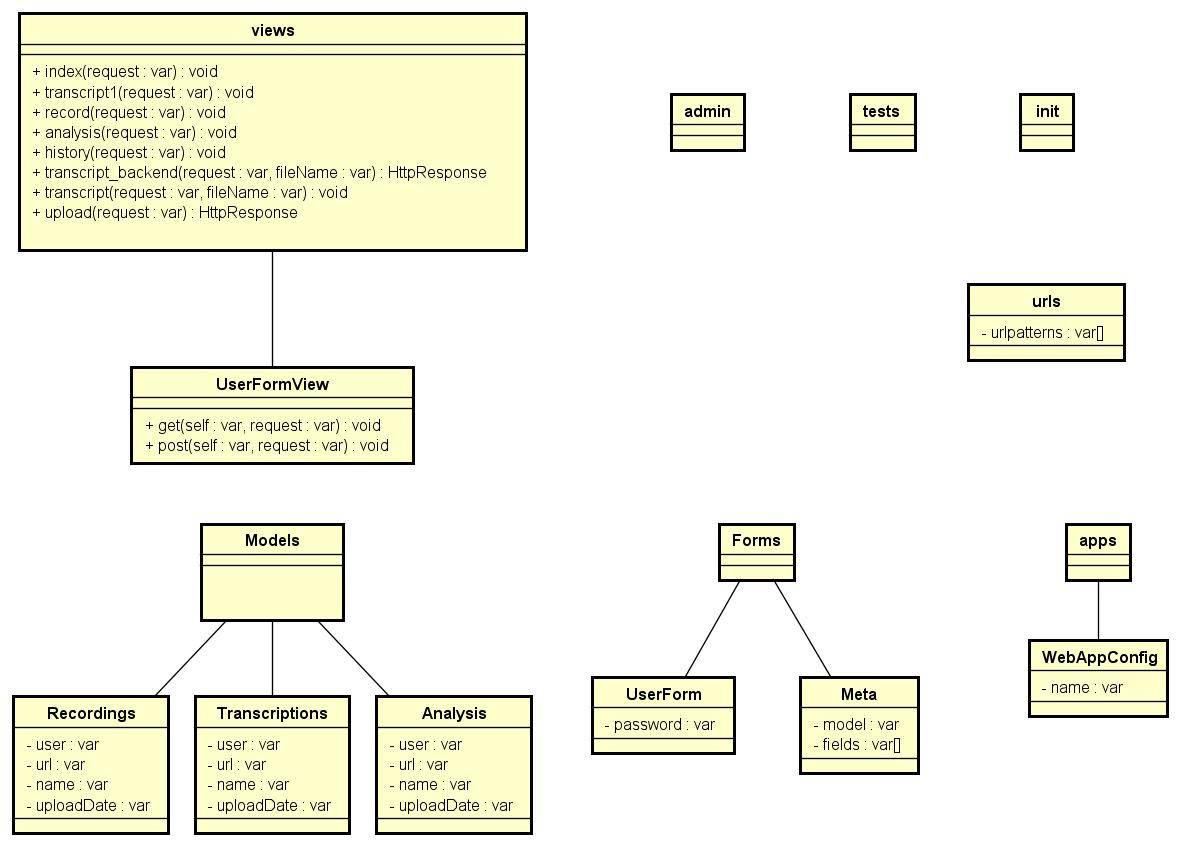
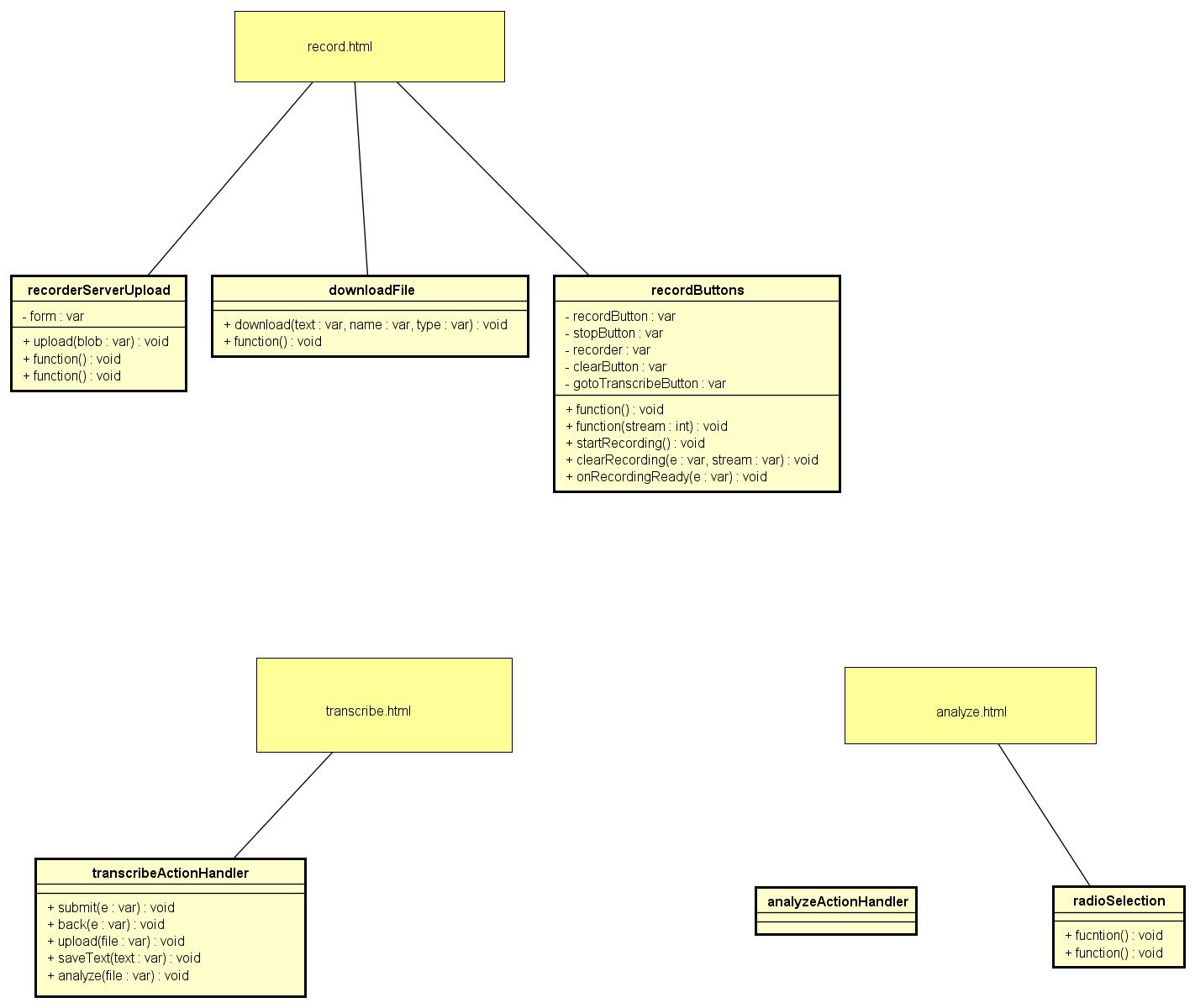
Evidence the Requirements have been Places Under Config Mgmt. 27

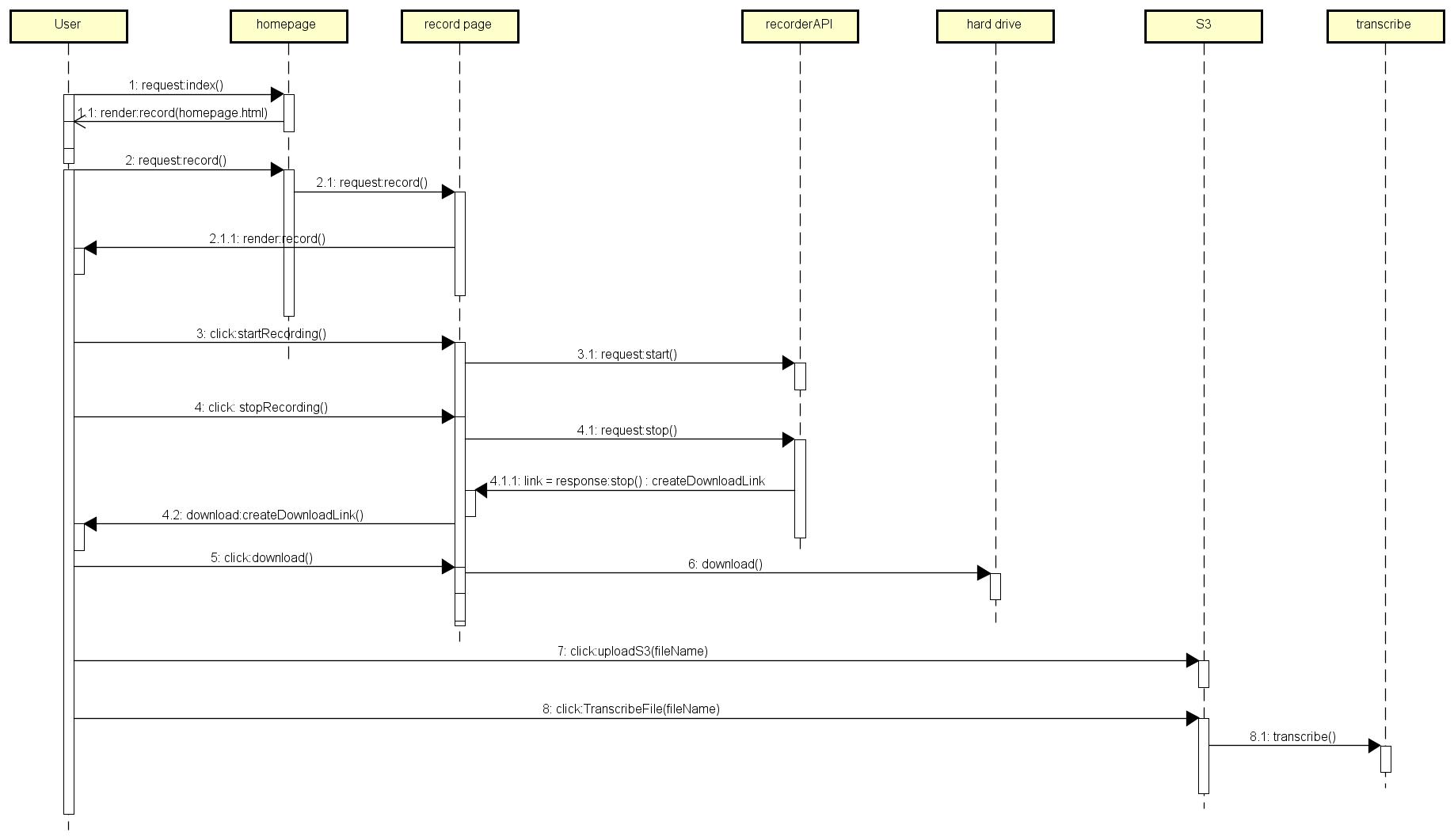
References 28

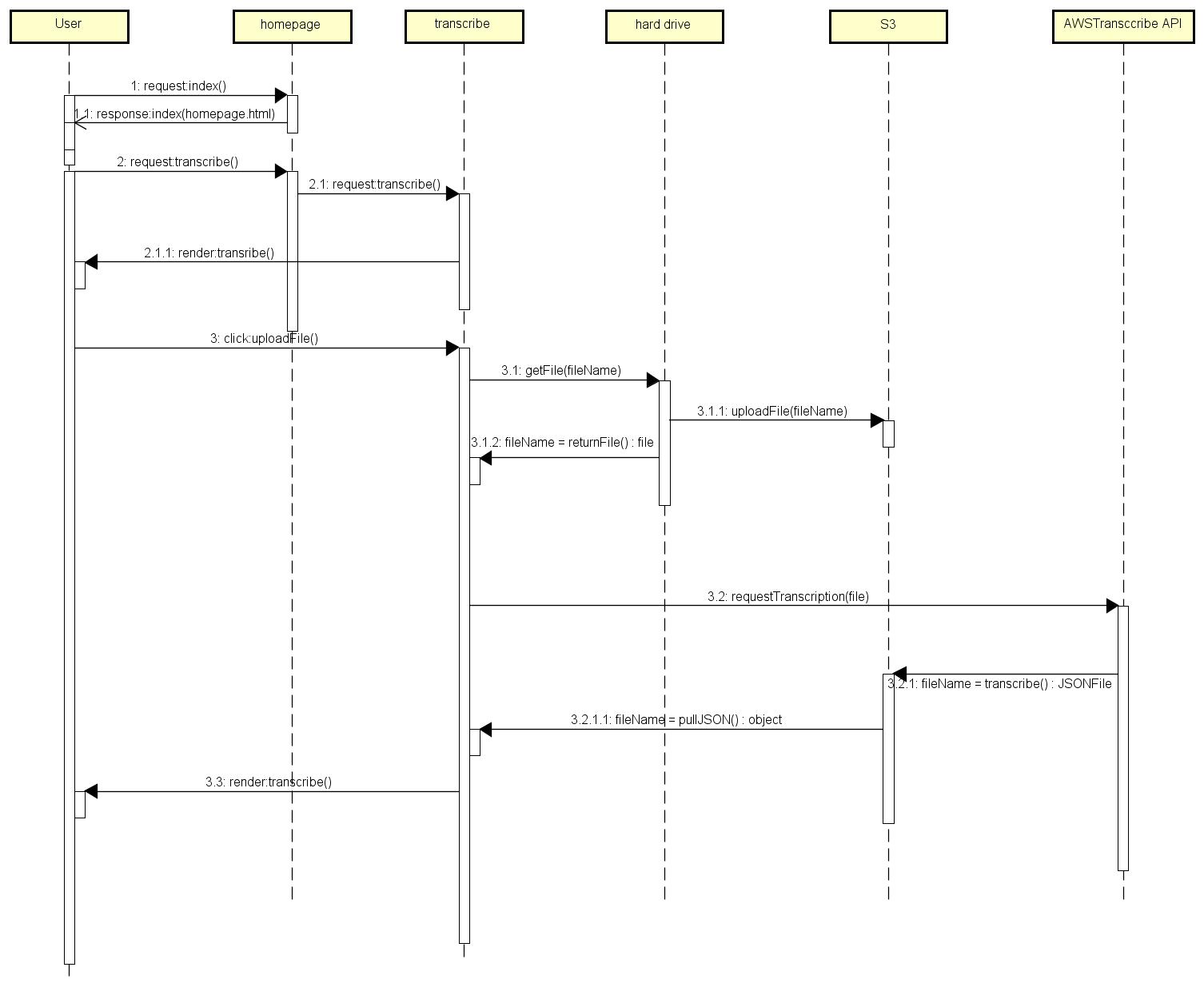
LIST OF FIGURES

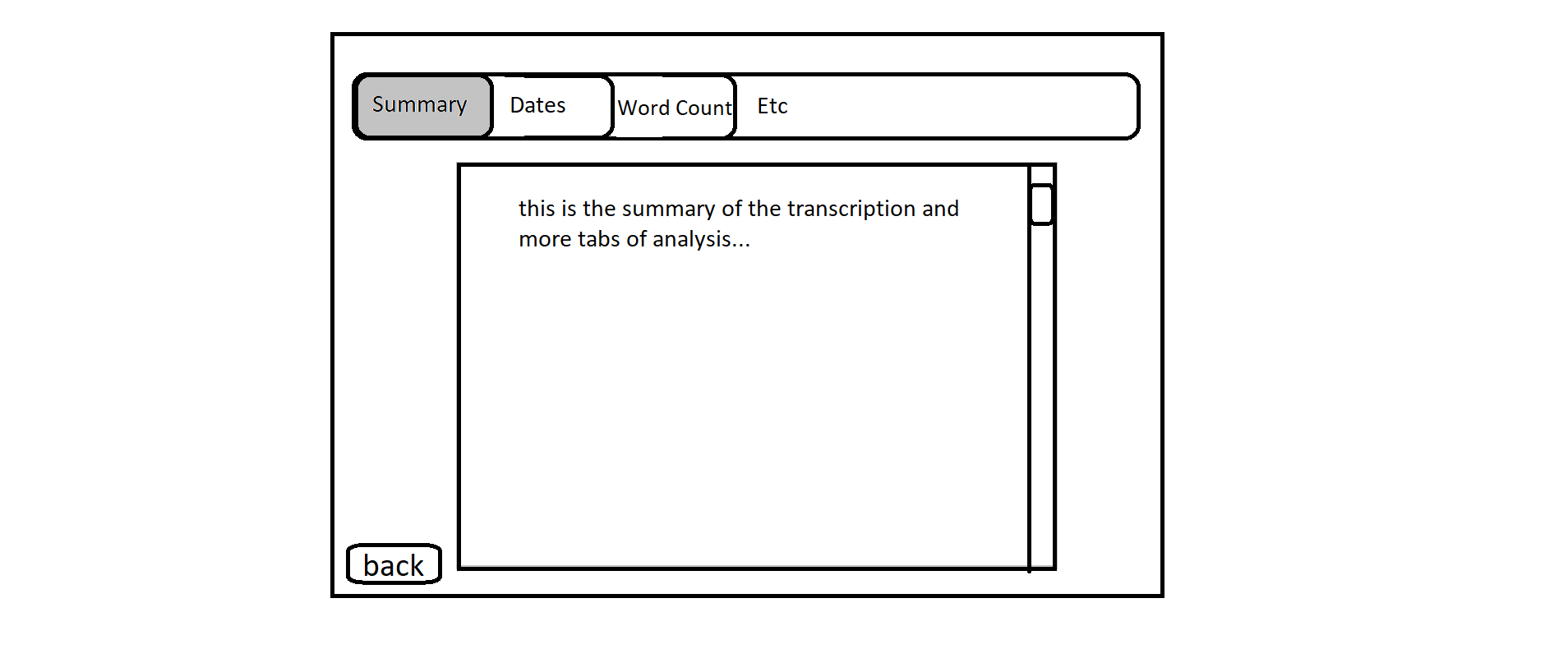


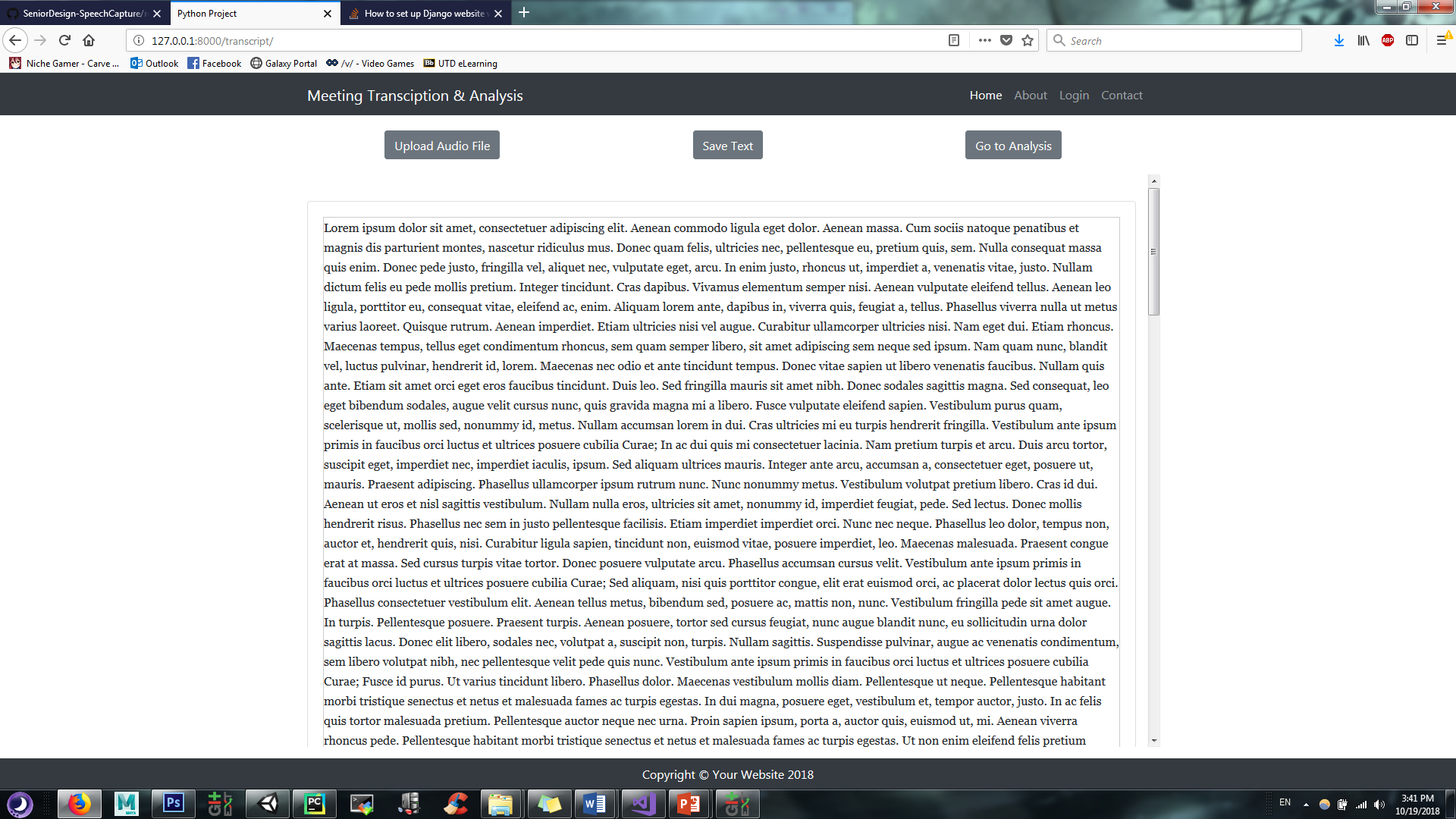


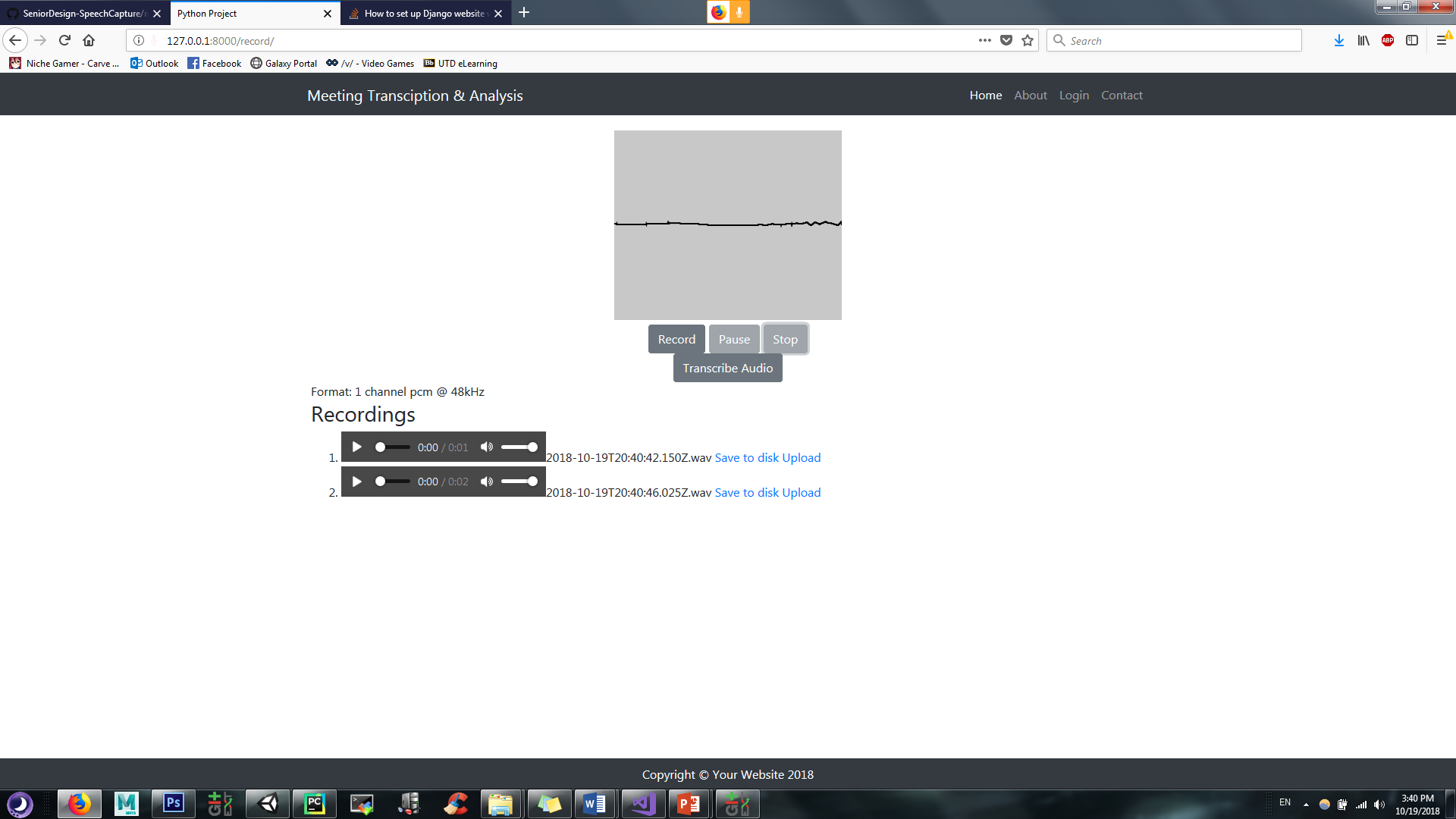


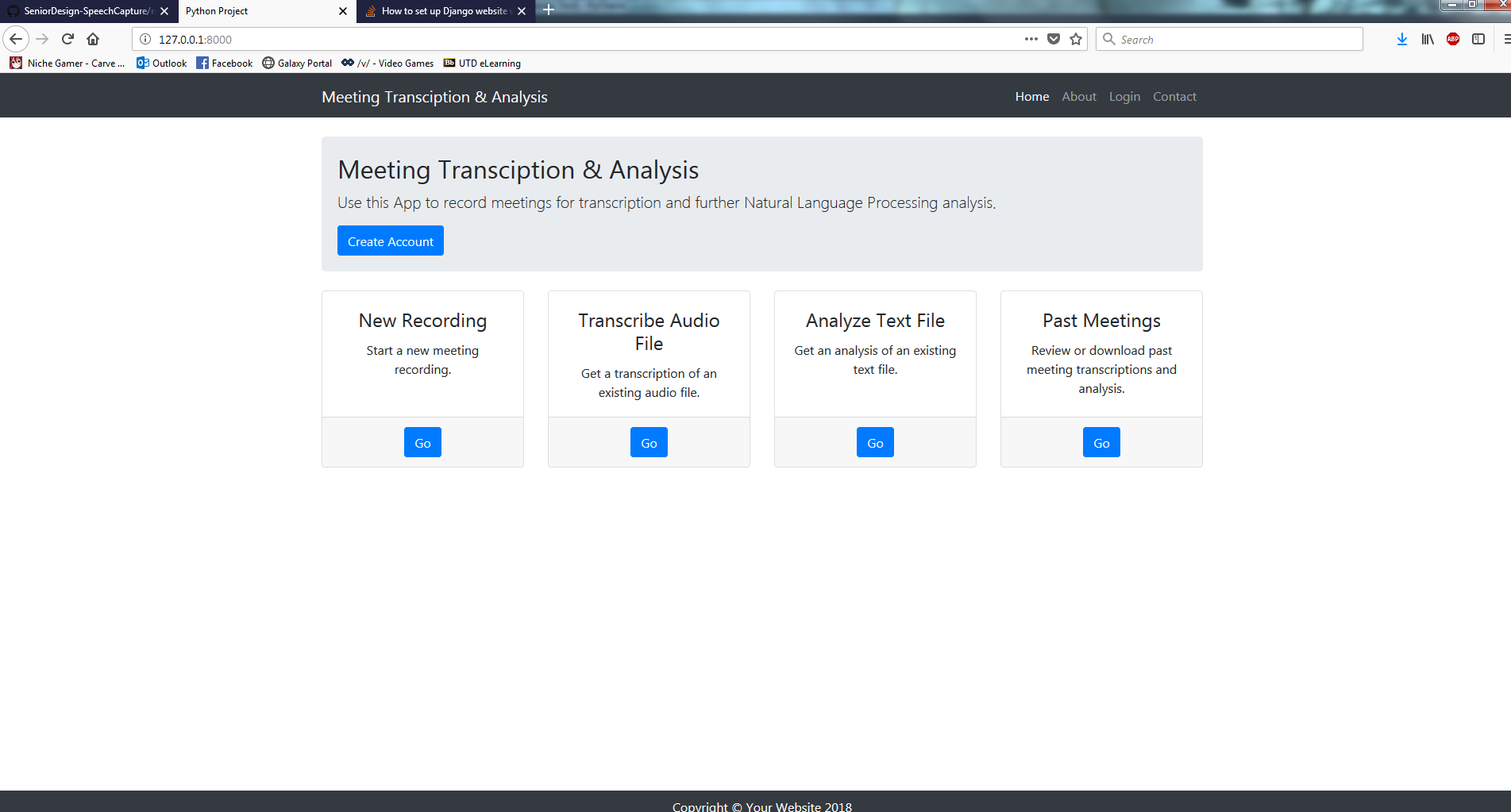












LIST OF TABLES

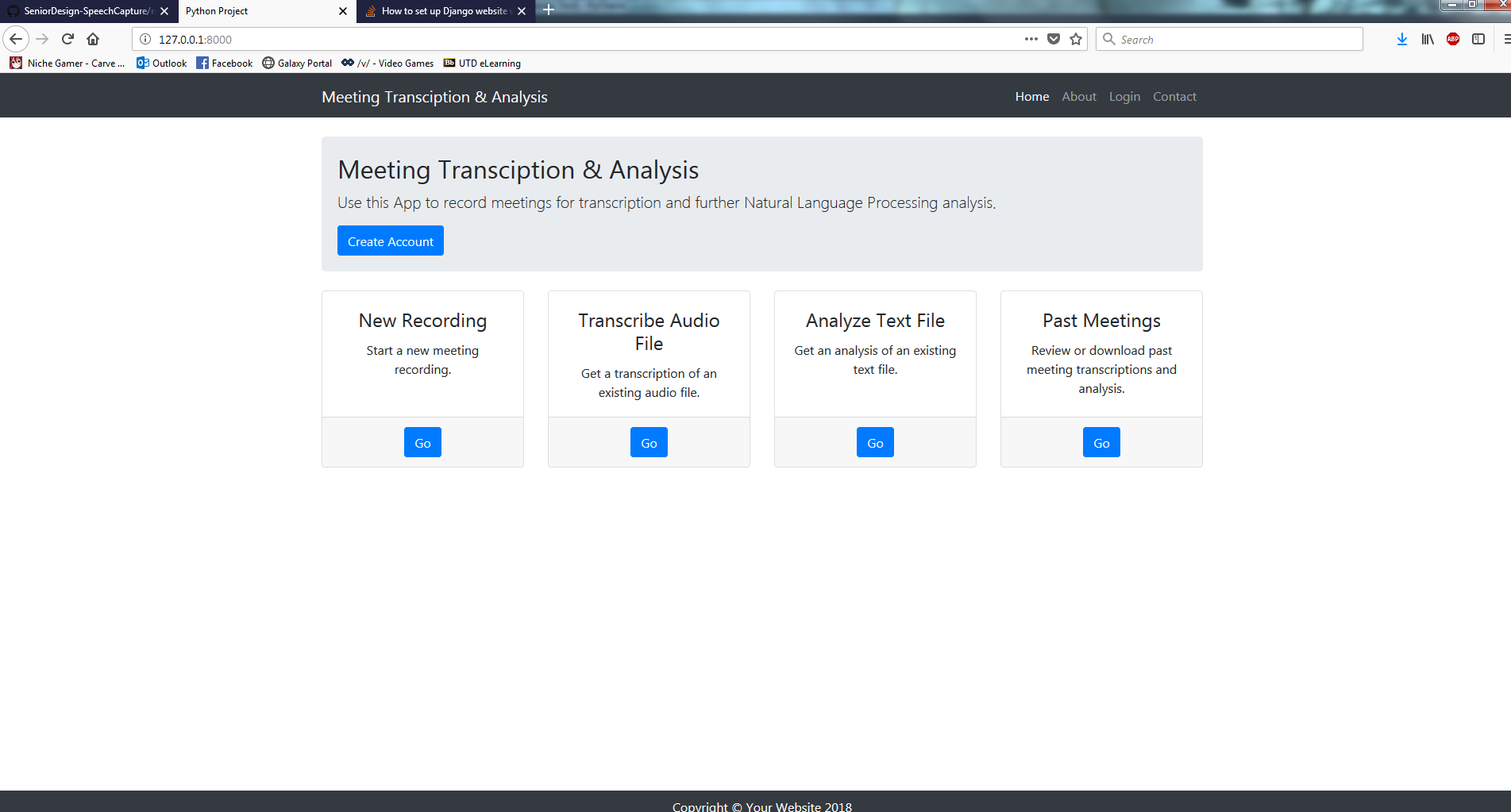
Introduction

The purpose of this document is to explain our design choices and show what the software will look like upon completion. To begin with, we will go over the graphical user interface of the software. We will then go over the preliminary static model for the design, and why we chose to do it as such. Next, we will go over the preliminary dynamic model for the design and why we chose to design it in this manner.

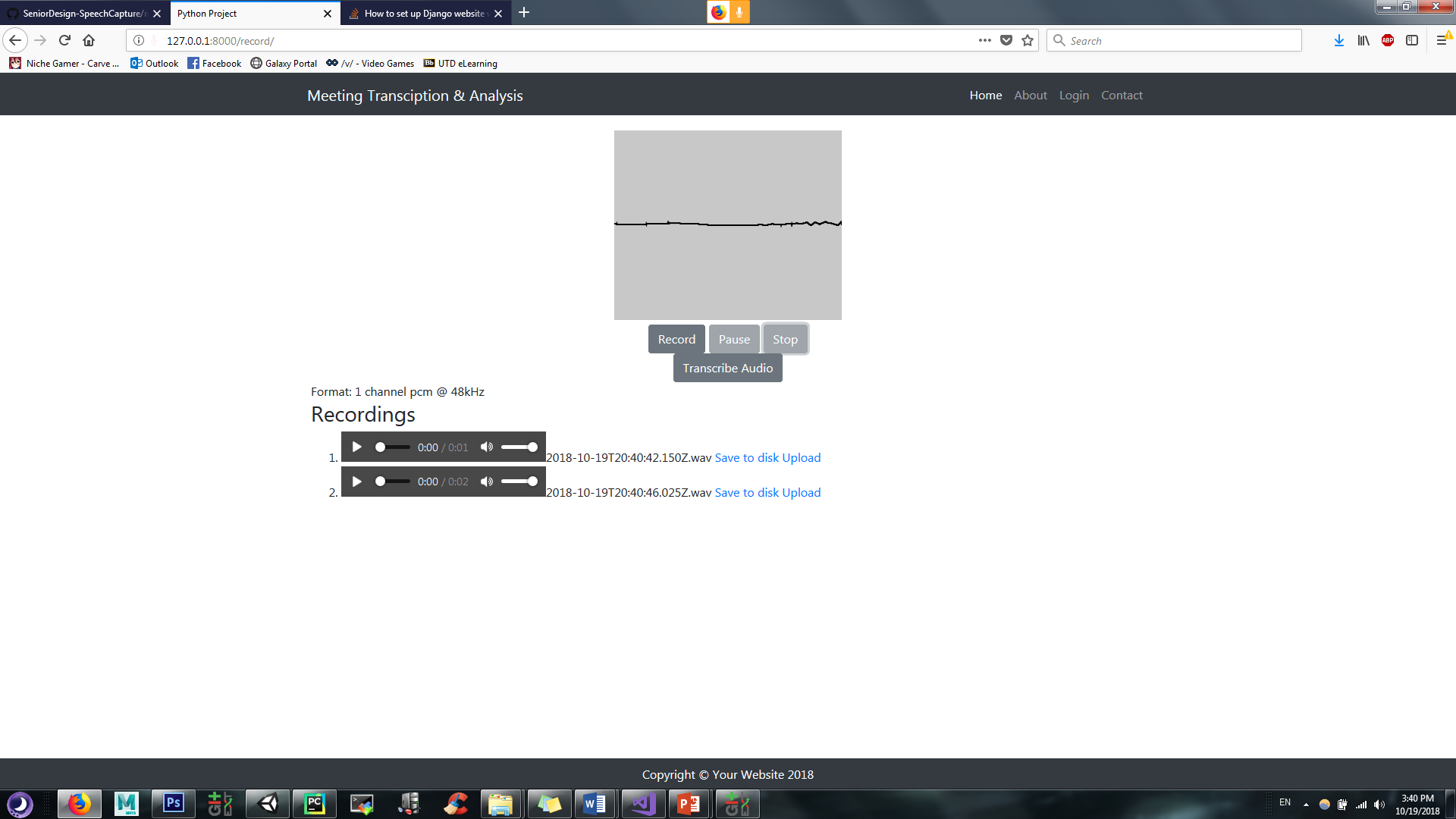
We will then explain the rationale behind the GUI and models interacting in the manner they do.

GUI Design

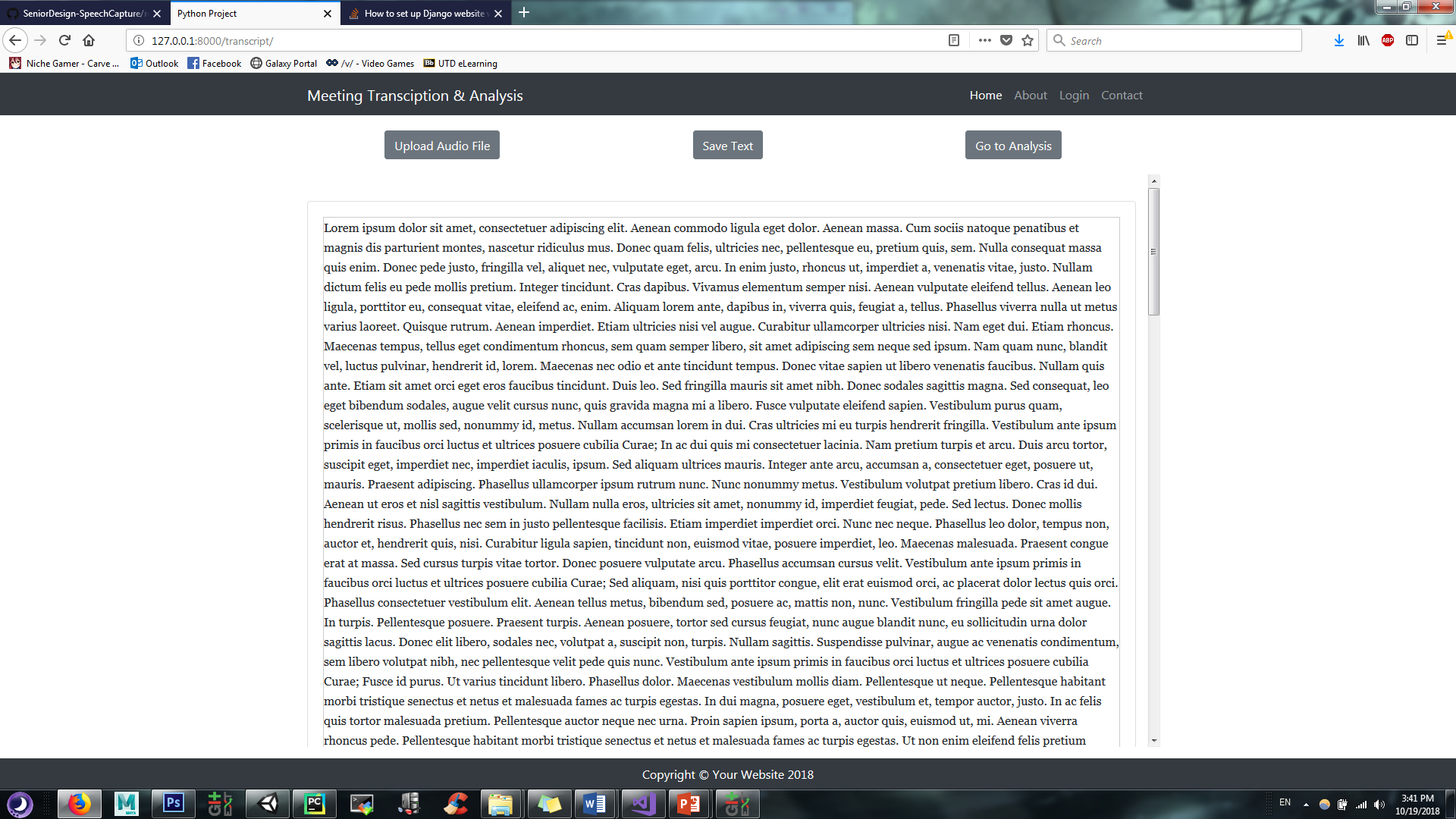
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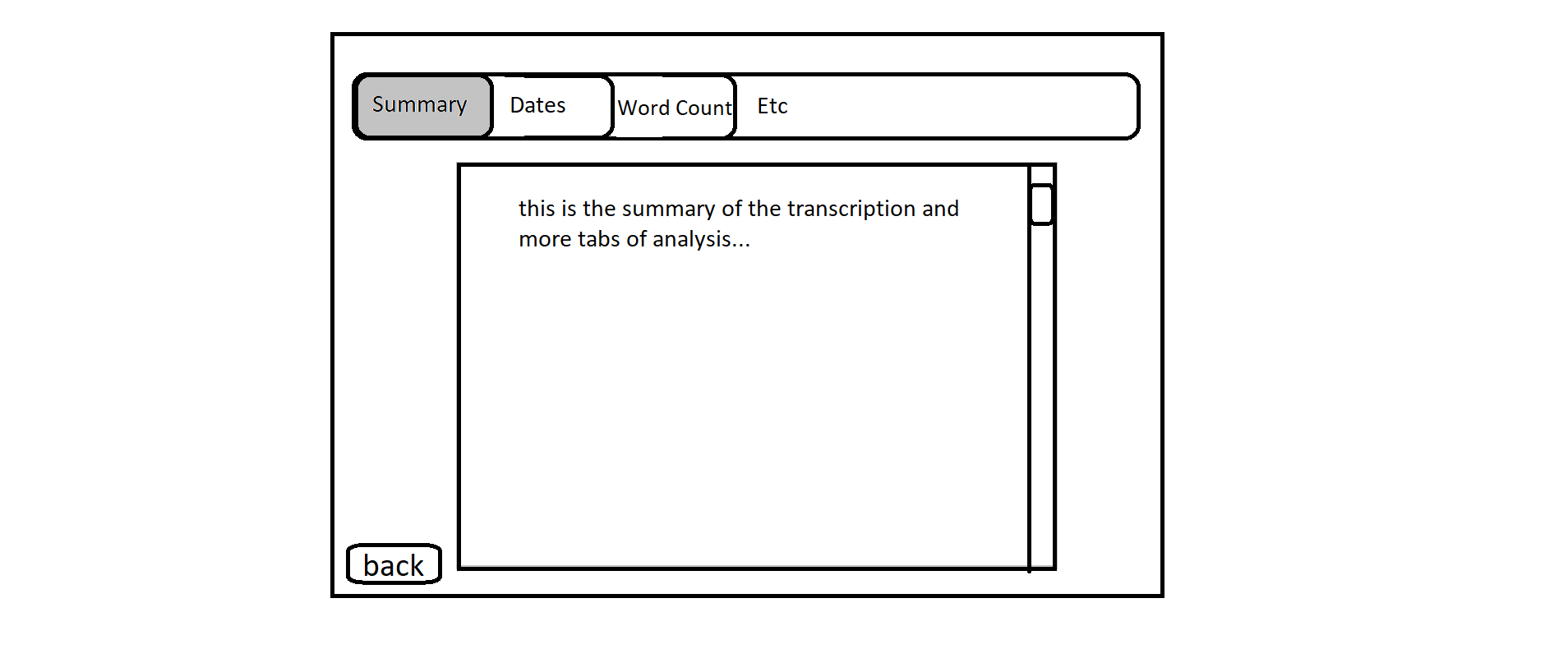


Below is our recording page. This is the page where you can record audio. It will show you past recordings (from this session) numbered at the bottom. The save to disk will download it, and the upload button will upload it to s3 AWS services.



Below is our transcription page. This will appear after a successful transcription.

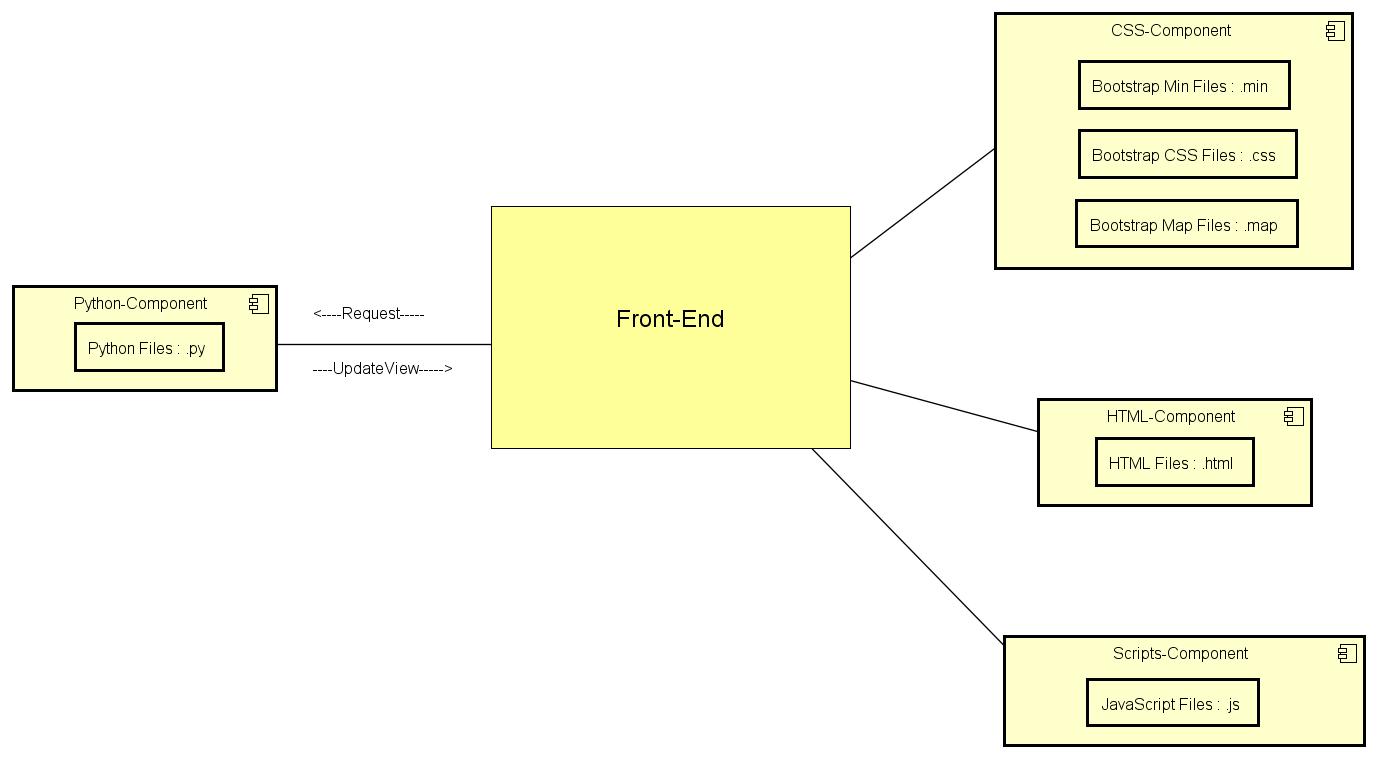




The above is the mockup of our analysis page. It will have the same header as the other actual pages, and the tabs may have different types of analysis.

Static Model

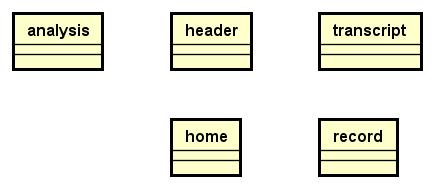
Component Diagram from a high level

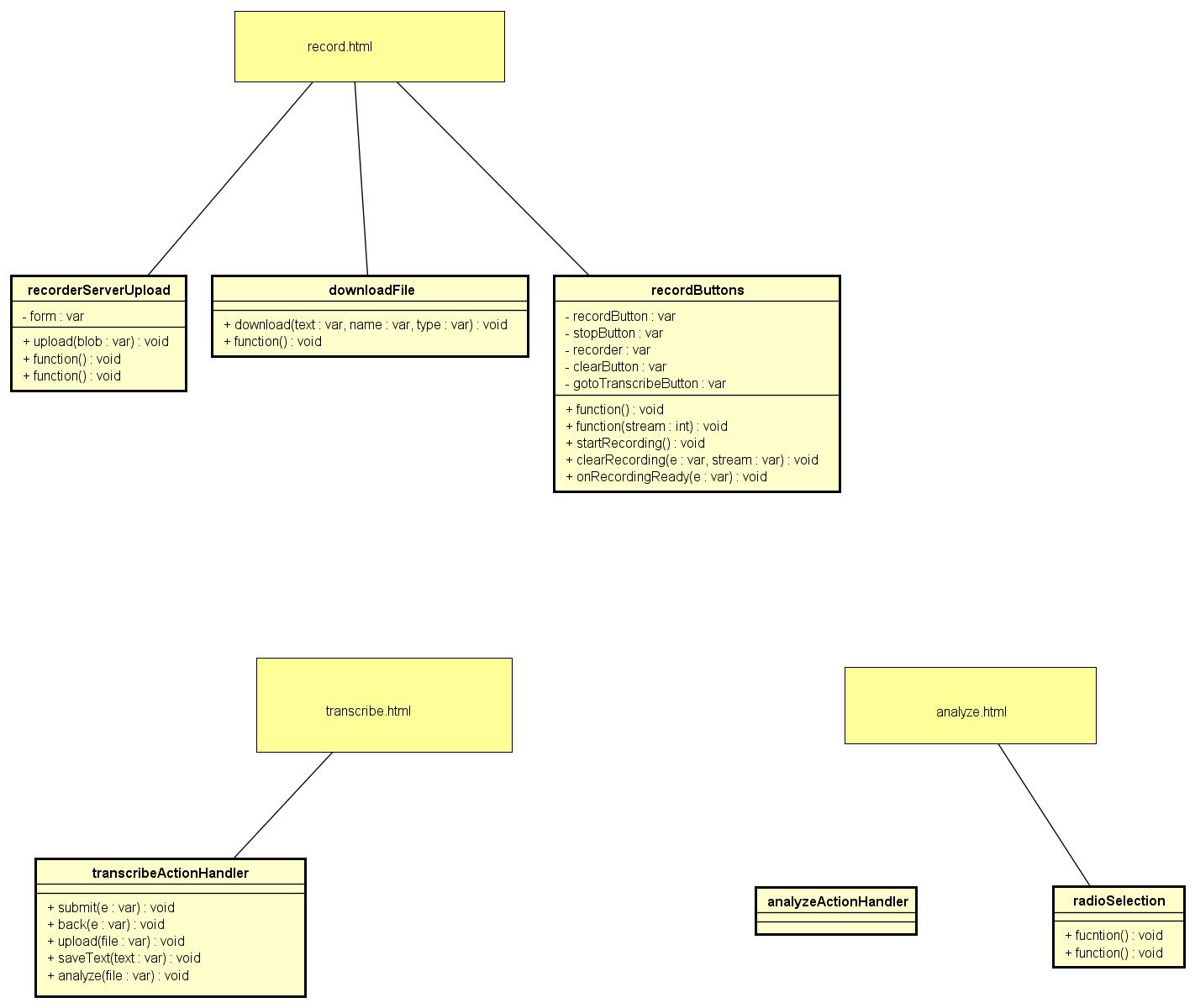


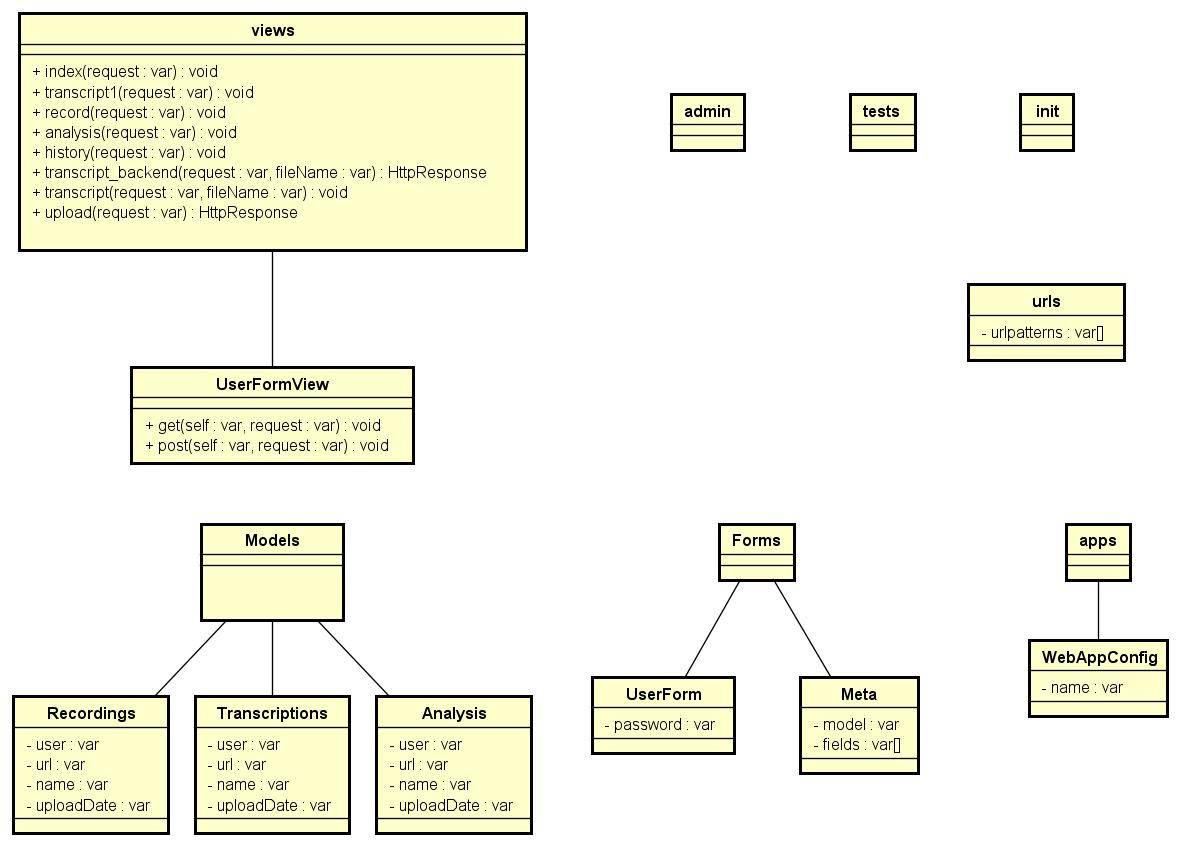
CSS files



HTML files

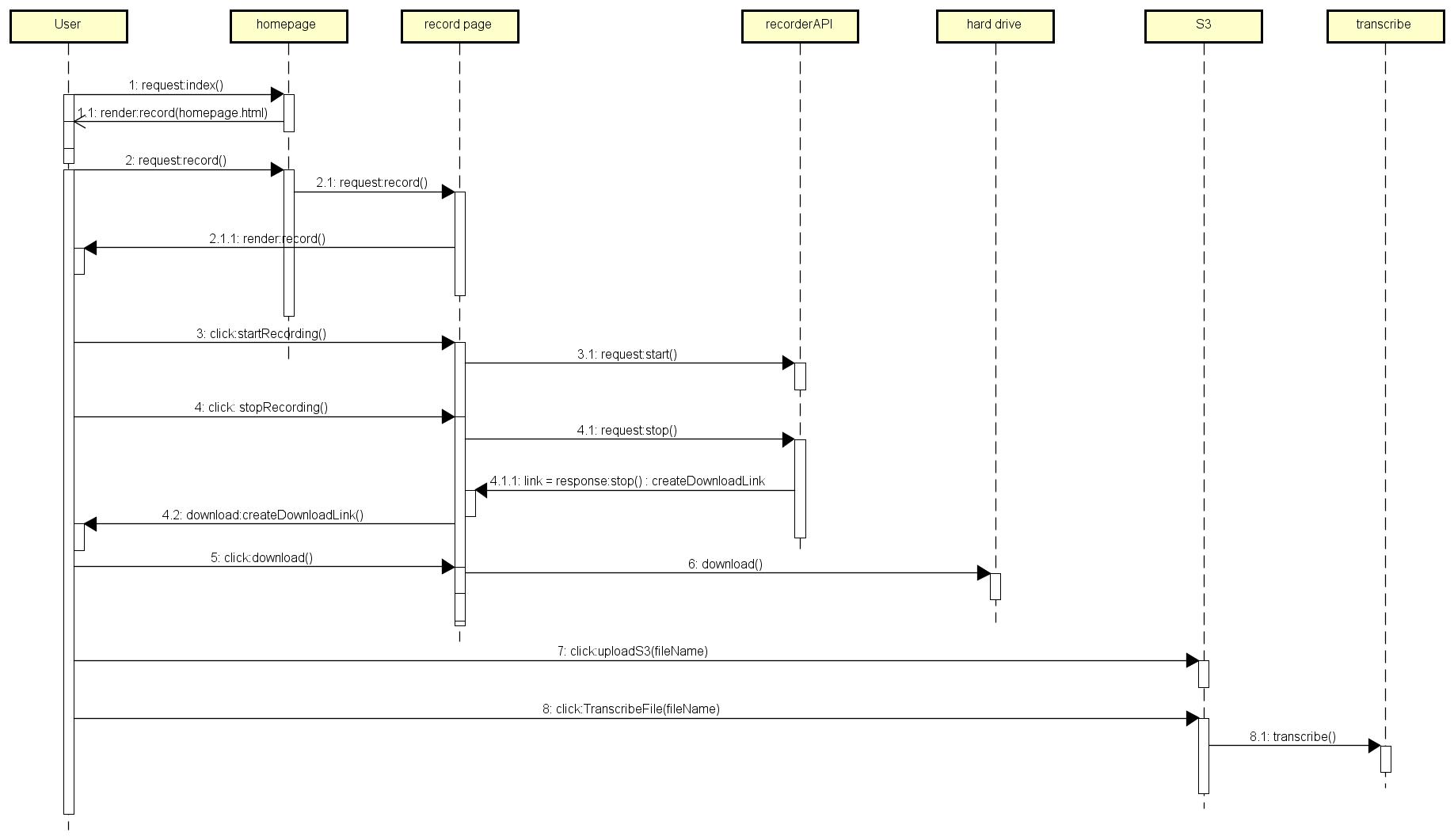


Below are the script files we use in JavasBelow are the

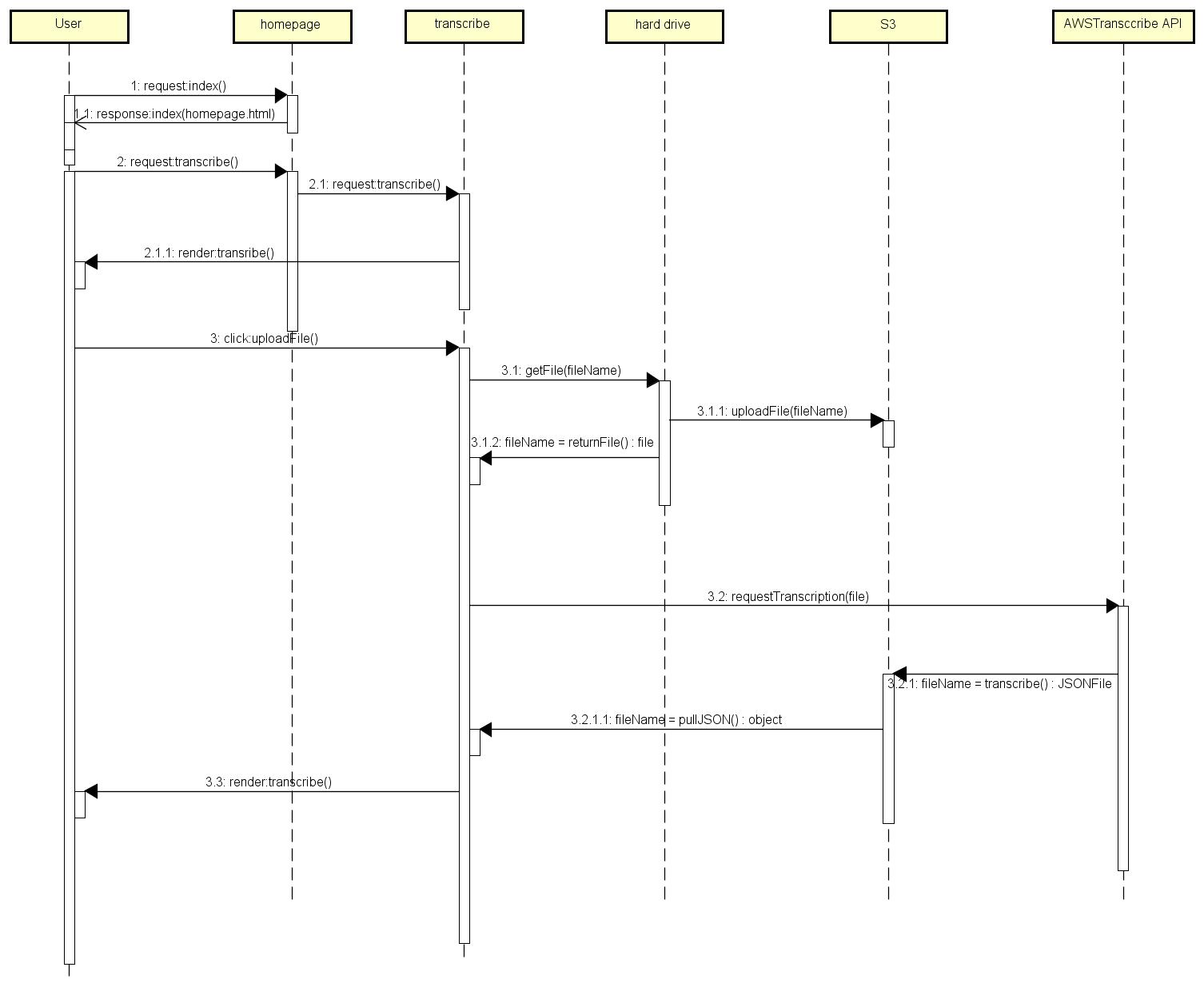
Below are the python files 

Dynamic Model

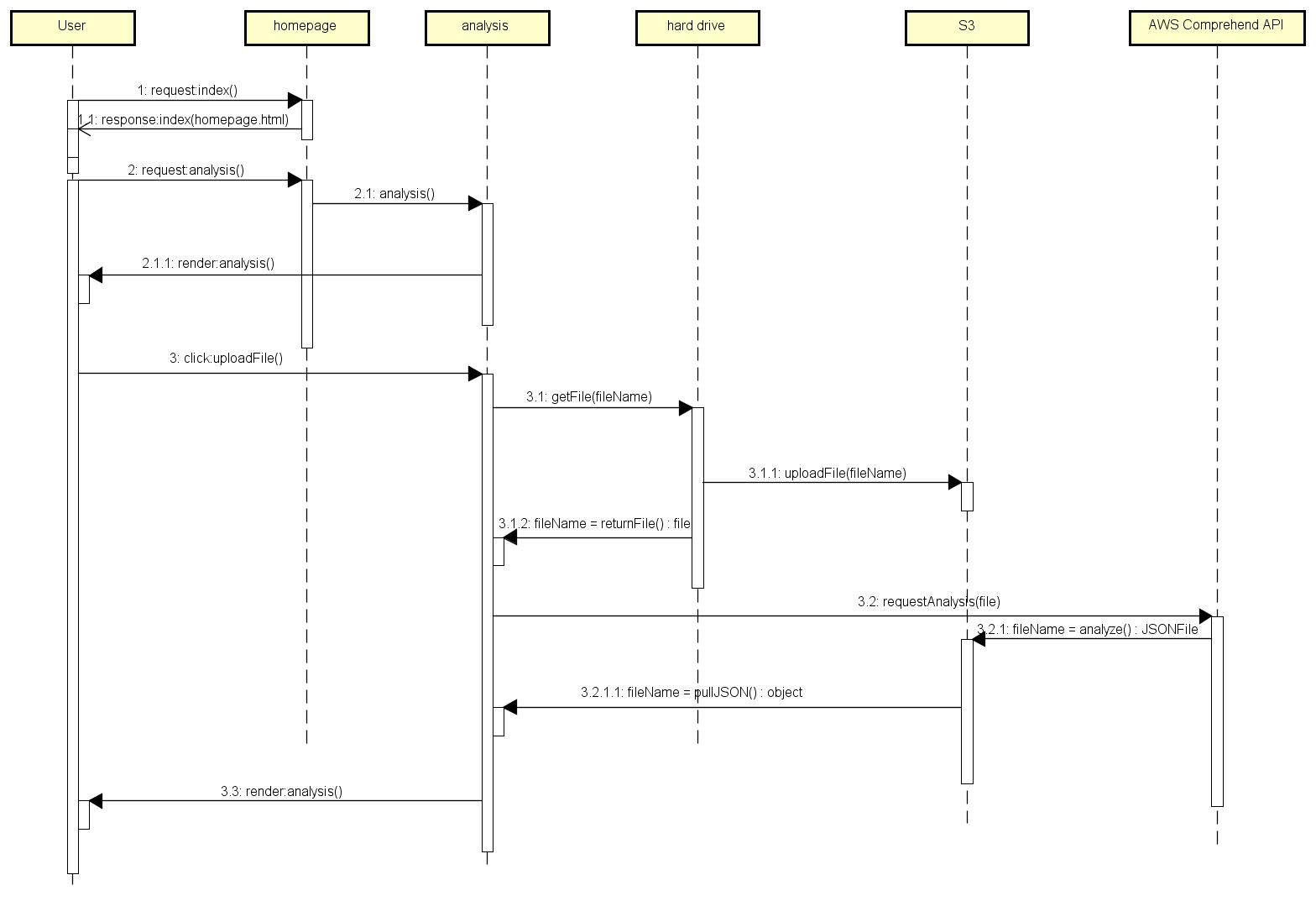
Record a file sequence diagram



Transcribe a file sequence diagram



Analyze a file sequence diagram



Rationale for our Detailed Design Model

We have chosen the design model because it is a heavy GUI application. We tried to model it after a Model-View-Controller type of design. With all of the GUI, we have scripts to control the actions performed on each webpage, which communicate with the python to load the screens.

EVIDENCE THE DOCUMENT HAS BEEN PLACED UNDER CONFIGURATION

MANAGEMENT

<https://github.com/reedpcummings/SeniorDesign-SpeechCapture>

REFERENCES