Software Design Document

HelpGenWiki4Android

An Easy-to-use Android App Help Wiki Tool

1. Purpose

This software tool is trying to build a wiki based help file automatically generating system for the android App developers.

1. Design

Four groups of users are considered in the design process which are App Wiki architectors, Android App developers, normal app users and wiki contributors.

The main purpose of this tool is to help the Android App developers to easily offer the android app users better help file in the app.

From the app users’ side, this tool believes what they want is the latest help file which is integrated with the specific function they have problem to use.

From the app developers’ side, every-time they have updated the code of the app, they have to modify the help file page by hand originally. Here, we provide this tool which would just require them to specify the position of the help files. And then, the tool would automatically download the related help files from the Wiki website with offered API. To start to use this tool, app developers have to discuss with the app wiki architectors to have an agreement on what files they want for the app and what should the content be. Once this is settled, the tool will take care of the help file updating during the process of software evolving.

From the app Wiki architectors’ side, after the agreement about the help files settled with the app developers, he should add a special page specifies the files and what would be inside these files. We have offered a suggested template to start with.

Template:

Introduction

Quick Start Guide

Function 1

Function 2

…

Function N

About

From the wiki contributors’ side, the way they contribute the knowledge is still the same as before with only one rule: you better do not change the whole structure of the wiki, since this structure is related to the template we have specified.

1. Development Plan

To start with, we decide to use python to download and parse the related files. And the help file structure page would be normal pages.

After successfully making the system running, we will further develop a media-wiki extension for the help file structure. And the tool will also be re-written in java based program which android developers will surely support.

1. Schedule

The 1st version should be finished in two weeks.

The 2nd version should take no more than two weeks.

1. Potential Risks

The basic difference between a mobile app help files and a wiki is there. How good we could do the translation from wiki to a mobile app one will influence the app’s performance largely. ------------ Deal this problem with template and fixed structure.

The usability of the tool on the local project will also matter a lot.

JAVA, PYTHON risk. Eclipse Extensions