

SPECIALIZED PROJECT SMART TV WITH RASPBERRY PI

March 16, 2015

OVERVIEW

1. Project Background and Description

Using Raspberry Pi and Android Application to transform normal TV into Smart TV which have basic function. This project will embrace the ability of user agent to the tons of online resources.

2. Project Scope

- Basic TV -> Smart TV
- Voice Recognition

3. High-Level Requirements

The project must include the following:

- Flexible layout on TV and simple controller on Android application.
- Searching media resources on the internet, get it and play on TV.
- Surfing web on TV.
- Auto detect Smart TV with Raspberry Pi from smartphone.
- Video controller screen while playing video.

4. Implementation Plan

- Week 1 (13/3/2015 – 19/3/2015): Take the project, analyzing, implementation plan, prepare all the request needed.
- Week 2 (20/3/2015 – 26/3/2015): Researching on documents, install the environment for developing.
- Week 3 (27/4/2015 – 2/4/2015): Building basic layout, create prototype using mockup.
- Week 4 (3/4/2015 – 9/4/2015): Research the method to stream media online and voice recognition function on Android.
- Week 5 (10/4/2015 – 16/4/2015): Auto detect Smart TV with Raspberry Pi from smartphone.
- Week 7 - 10 (17/4/2015 – 14/5/2015): Implement functions, building code.
- Week 11 (15/5/2015 – 21/5/2015): Basic finishing the project.
- Week 12 (22/5/2015 – 28/5/2015): Testing and write documents.
- Final Week (29/5/2015 – 4/6/2015): Accomplishing the project and report to lecturer.

5. High-Level Timeline/Schedule

- Annual report on Thursday through email.

APPROVAL AND AUTHORITY TO PROCEED

Lecturer: Dr. Tuan Anh Nguyen

We approve the project as described above, and authorize the team to proceed.

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