**System Overview**



The central component of the Pie Checker is the raspberry pi every hardware component is attached to it and user id’s are handled locally on the sd card.

The components attached to the pi are :

* Wi-pi module
* Temperature probe circuitry
* rpi-camera module
* Power source
* SD-card

The config process for the pichecker is described in steps here.

1. The user accesses the piechecker website
2. User is promted to register for a justin.tv account
3. User fills in his wifi ssid and password for the config file
4. User downloads config file
5. User places config file on the sd card
6. User attaches sd card to pi

The entire streaming process is handled by justin.tv, which means user accounts are also handled there. The measuring of temperature is done with the probe the data is converted and transferred to the users justin.tv channel dedicated socket-io room where the user can easily access it. When everything is ready and the device has been setup streaming is done to a justin.tv channel which the user can see on the piechecker website or his choice of moblie application.