About Ephedra

Ephedra, also called Sea Grape, Joint Pine, Joint Fur, Mormon tea or Brigham tea is a shrub native to Asia, Europe, Africa and the Americas.
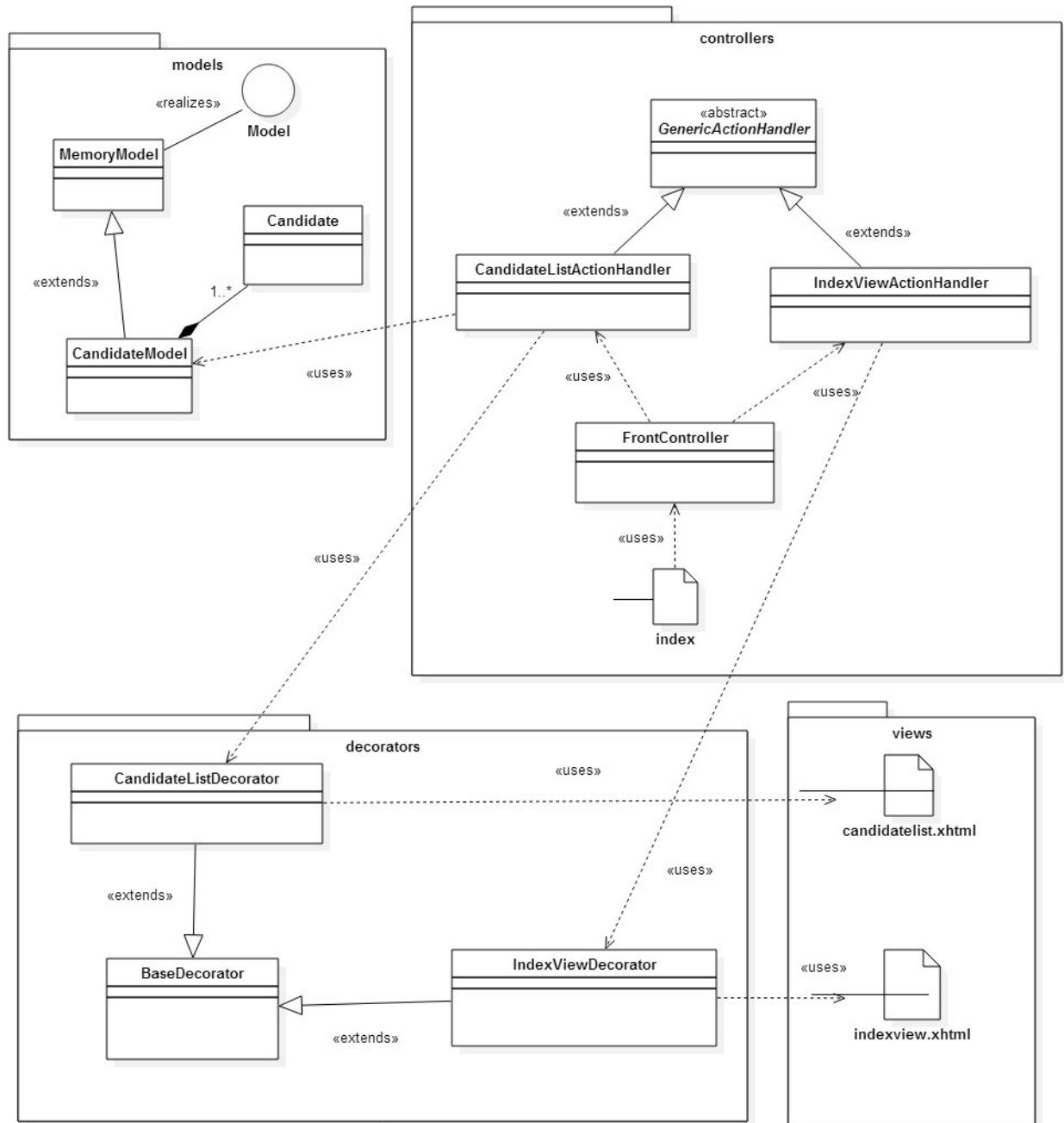

Also, Ephedra is a lightweight PHP-based microframework, targeted to run in embedded devices and to be rendered in microbrowsers. Ephedra has a small footprint. Without the documentations and sample application it is about 1 MB. With the documentation and sample application it can grow up to 3 MB.

Ephedra is currently under development, in version 0.1, which was tested on Raspberry pie and PC-duino based systems.

Architecture

Ephedra is a combination of MVC and Decorator design patterns. It runs on PHP version > 5.3.3 and depends on Redbean for data access layer. It ships with a candidate sample application. The following component diagram may give a glimpse of interaction between the components of the application:
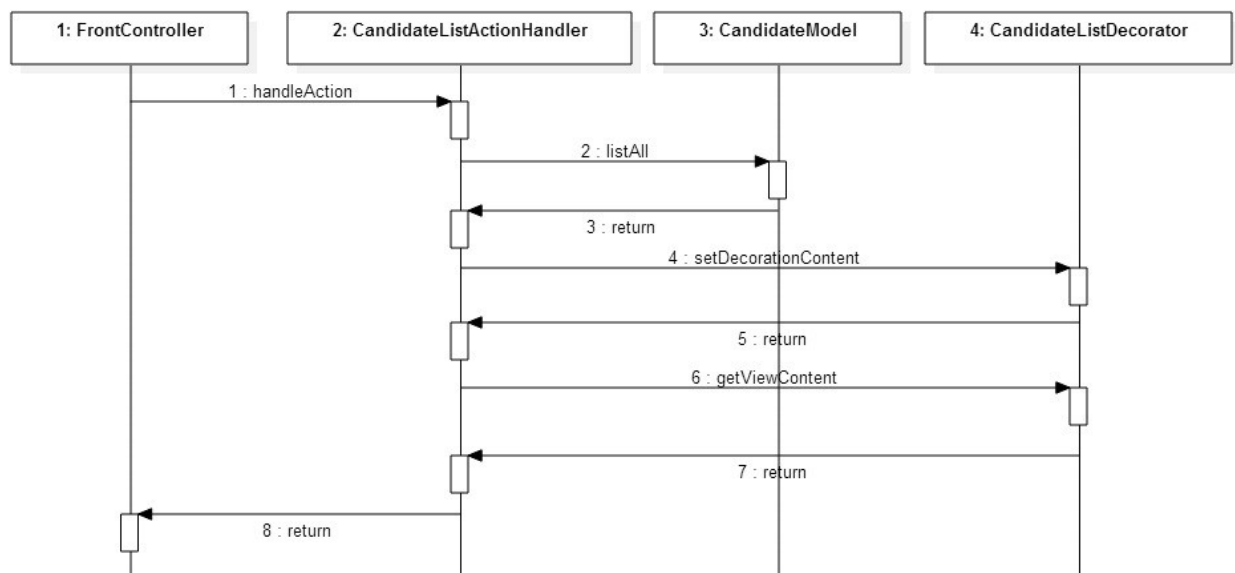
The components are layered into following namespaces:

1. Models

2. Controllers

3. Decorators

4. Views

5. Helpers

6. Config

7. Application Registry

8. Exceptions

9. And the app that will be developed over this, in the sample, the candidate app.
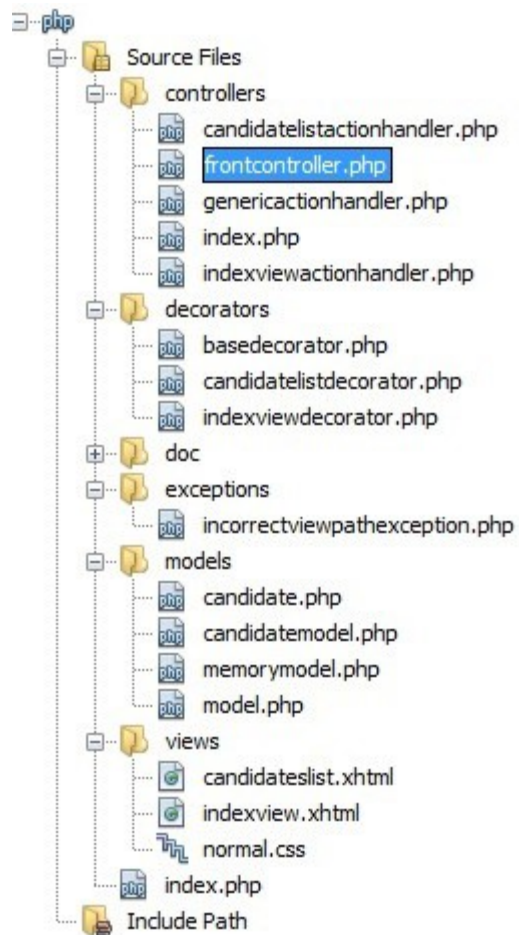
The Basic Flow

After the request reaches to Index.php, it is redirected to internal index in the controllers. The index transfers the request to FrontController, which then processes the request in a chain of responsibility, and returns that response to be echoed by the Index.

As we see in the above sequence diagram for the single hypothetical use case Candidate Listing, after the FrontController receives request, it finds the Action Handler responsible for dispatching this action. The CandidateListHandler knows its mode and its decorator. So it first fetches the data from the Model with the listAll call, and then it sends the data to be processed and decorated by the view. Once the handler receives its response from CandidateListDecorator, it returns it in the chain to FrontController.

Directory structure

The code have the following directory structure:

```
php
  Source Files
    controllers
      candidatelistactionhandler.php
      frontcontroller.php
      genericactionhandler.php
      index.php
      indexviewactionhandler.php
    decorators
      basedecorator.php
      candidatelistdecorator.php
      indexviewdecorator.php
    doc
    exceptions
      incorrectviewpathexception.php
    models
      candidate.php
      candidatemodel.php
      memorymodel.php
      model.php
    views
      candidateslist.xhtml
      indexview.xhtml
      normal.css
    index.php
  Include Path
```

Root folder

    i. Index.php (root)

    ii. Readme.pdf (this file)

    iii. Controllers

        1. candidatelistactionhandler.php

        2. frontcontroller.php

        3. genericactionhandler.php

        4. index.php (internal)

        5. indexviewactionhandler.php

   iv. Decorators

        1. basedecorator.php

        2. candidatelistdecorator.php

   v. Doc

   vi. Exceptions

        1. Incorrectviewpathexception.php

   vii. Models

        1. candidate.php

        2. candidatemodel.php

        3. memorymodel.php

        4. model.php

   viii. Views

        1. candidatelist.xhtml

        2. indexview.xhtml

        3. normal.css

Navigating

When invoked, the index.php looks like the following:

Welcome to Ephedra, a PHP microframework suitable for embedded devices and microbrowser targets.

The example here shows the sample Candidates app that comes with the framework.

Alternatively, you may want to view the class documentation or download the manual.

Thank you for your time for evaluation! Please send any feedback to callmoni@gmail.com

You can go to see the sample use case of listing candidates from there, or you can view the documentations, as shown above.

The candidate listing page may look like the following:

Sample Candidates app developed using Ephedra.

Name	Test Score	Interview Score	Experience Score	Total score	Actions
Monir Noob	0	0	10	10	Edit Delete
a	1	2	2	5	Edit Delete
					Clear Save

Alternatively, you may want to view the class documentation or download the manual.

Thank you for your time for evaluation! Please send any feedback to callmoni@gmail.com

You can go to the documentation space from any of the pages.

Questions or issues

Please let me know immediately: callmoni@gmail.com

Thank you