### CoCoMo Estimation:

We are going to use the LOC from similar projects to gain a sense of what to expect.

Similar Project #1: <a href="https://github.com/tastyigniter/Tastylgniter">https://github.com/tastyigniter/Tastylgniter</a>

# **Results**

| File Type   | Files | Lines of Code | Total lines |
|-------------|-------|---------------|-------------|
| PHP         | 643   | 48068         | 59104       |
| Text        | 4     | 0             | 176         |
| Stylesheets | 38    | 14739         | 18394       |
| JavaScript  | 157   | 27401         | 32671       |
| Json        | 16    | 5629          | 5629        |
| Xml         | 1     | 30            | 30          |

We are interested in PHP, Stylesheets, JavaScript, Json and XML. The total LOC for those are: 48068 + 12739 + 27401 + 5629 + 30 = 93867.

LOC = 93867

## **Results**

| File Type   | Files | Lines of Code | Total lines |
|-------------|-------|---------------|-------------|
| Text        | 4     | 0             | 156         |
| Stylesheets | 16    | 13876         | 14431       |
| Html        | 80    | 4479          | 4543        |
| JavaScript  | 258   | 32658         | 38633       |
| Json        | 26    | 11116         | 11116       |
| PHP         | 195   | 36643         | 38540       |
| Xml         | 1     | 9             | 9           |
| Shell       | 2     | 24            | 46          |

LOC = 98805

We can take the average of these two projects and assuming our project will be in a similar range for LOC.

Average LOC = (93867 + 98805) / 2

Average LOC = 96336

Only 1 person in our team has experience with Web Development. The other two are stronger in Java and C++. This project is a bit complex considering the inexperience of the team. Therefore we will be considering this a Semi-Detached project.

### Effort:

A = 3.0 B = 1.12

 $E = A(KLOC)^B$ 

 $E = 3.0(96)^{1.12}$ 

E = 498.04 person-months

### Duration:

A = 2.5 B = 0.35

 $D = A(E)^B$ 

D = 2.5(498.04)^0.35

D = 21.98

D = 22 months