**FRONTEND DEVELOPMENT [2 hours 45 min]**

**Section I : Introduction and getting to know basics of frontend dev**

[30 min taking into account setting up time wastage or starting late]

[While this is happening coordinators are requested to sort out xampp and other technical issues candidates have so that everyone is ready for the backend dev part post lunch]

1.Introduction volunteers , coordinators and speakers

Names of volunteers, coordinators and that coordinators can be called regarding any setup issues.

Few lines on who the speakers are

2.Interactive session on what the candidates think web dev is about, its uses and get to know where they stand and how much they know about frontend and backend dev.

Why do we need web dev ?

What is Frontend and Backend? How does one distinguish between the two?

3.Based on this allocate more time for the part which most of the candidates are interested in.

**Section II : Start off writing basic HTML5 and CSS code**

[ 45 min ]

1. HELLO WORLD

Inline CSS, Internal CSS, Explain about external CSS

Explain about the DOM structure the how JavaScript uses it

Use of DOCTYPE ?

2. Use of simple tags such as p, div, img

Using CSS along with this to stress on certain specific attributes.

How to use id's and classes

3. Dive into bootstrap grid system

Elaborate on use of scripts, CDNs

Clarify any doubts regarding any of the above

4.Introduce why h1, h2, etc tags are actually used for and how Search engines use crawlers in brief.

5.Give an intro to some of the tags generally used where there is scope for confusion on when to use which tag

<article> tags should be used where a piece of content could be taken out of a page completely and still make sense by itself with no surrounding content.

<section> tags, on the other hand, should be used for content that is grouped together according to a theme, but makes sense only in the context of the content surrounding it.

Tell about where to use div and where to use section

<nav> tags are designed to indicate major navigation blocks on a webpage, such as a menu bar or pagination. They shouldn't be applied to regular links, only to significant sections that are wholly dedicated to navigation.

<aside> tags could effectively be described as the "everything else" element for content that is neither article, section nor navigation. W3C prescribes this tag for use when something is tangentially related to the content around it, but is separate from the main content of the page, such as sidebars, blogrolls and so on.

**Section III : Capstone Project - Make their own websites [Profile Website]**

[1 hour 25 min]

1. Elaborate more on bootstrap, provide valuable links for resources font awesome etc

2. Show demo of the template made Website made, and show other better websites available on the internet so that they can draw inspiration from to make their own website.

3. Go around to everyone's bench and help them out personally with any doubt with the help of the coordinators.

**Section IV : Current Trends in Front end**

[5 min]

1.Use of Js and Ajax :

https://www.w3schools.com/xml/ajax\_xmlhttprequest\_create.asp

https://www.w3schools.com/xml/tryit.asp?filename=tryajax\_database

2.New Frameworks being used and why they are being used

3.Briefly discuss about react Js library and angular framework