

**Pre training assignment to full stack web developer training
concepts by MinabTech and eligibility assessment**

Reading Assignment

To prepare for this training it is highly recommended that trainees have a good understanding of these development concepts, based on which a significant number of web development frameworks and tools are built on. Understanding of these concepts will provide a more effective result in translating skills to the real-world tech market challenges. It will also offer a bigger picture understanding on how technology-based enterprises operate, by contextualizing enterprise development standards followed across the industry.

For this reading assignment trainees are expected to read and have an understanding on some of the web development concepts that will be useful to put skills acquired in use during and after the training, each concept is briefed and a link to a couple of resources are offered. Among other related topics, trainees are expected to read about: -

Single page app development: - a concept in which all the contents of an app are collectively preloaded and changes are made based on events triggered by the user. The below listed resources will offer good insight on SPA: -

- [Single page web applications by Gregory D. Benson](#)
- [How to Build a single page application a blog post by Safiya Merenych and Anna Popovych](#)

Coding standards and conventions: - these are a collection of guidelines and non-enforced rules followed by software developers to maintain uniformity of production scale code base. The below listed resources can be referred to understand coding standards.

- [Coding standard and guidelines an article by Sayan Kumar PAL](#)
- [Coding standards and best practices to follow by Browser Stack](#)

Microservice architecture: - is an architectural style in which web application are built on, and the below resources can offer a working understanding of the concept.

- [Micro service architecture by Chris Richardson](#)
- [Microservices: From Design to Deployment by Chris Richardson](#)

Server-side rendering: - this is a concept in front end development which enables a page to be rendered on the platform's server rather than the client browser. To gather better understanding on this please refer to the below resources.

- [Server-Side Rendering \(SSR\) by Vue.js](#)
- [What is server-side rendering by Educative](#)

Implementation Assignment

In preparation for the classes to follow a trainees skill assessment is required, so they can measure their current skill standing in web programming and calibrate to the prerequisites of this full stack developer specialized training. This assessment aims at prepping trainees for the coming sessions and helps to evaluate their implementation understanding of HTML, CSS and JavaScript while submitting the assignment they get to revisit their understanding of GIT environment using GitLab.

For this implementation assignment the first-class attendees are expected to **build a static page using, HTML, CSS and JavaScript** without using any frame work. The static page should communicate the trainee's academic profile in the sections: -

Basic detail: - complete with a picture, full name, Address, Date of birth, place of birth and career of choice.

A brief bio: - a paragraph describing, interest, competence, career plans and dreams of the trainee

Education details: - primary school details, high school details and higher education details

The assignment should be worked on in a git repository on [GitLab](#) named with a combination of “[*Trainee's name*] _BITSr01” and URL of the output should be submitted to the assigned training coordinator **within a week**.

The outputs will be evaluated based on the below listed criteria: -

- ✓ Trainees' readiness in terms of fulfilling the training prerequisites
- ✓ Trainees' dedication and commitment to qualify for the training
- ✓ Trainees understanding of HTML, CSS and JavaScript
- ✓ Trinee's capacity to utilize GIT using GitLab to implement a simple project

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