Web Development and Swecha

Web development refers to developing and maintaining web pages. The process of web development is of three types – frontend web development, backend web development, full stack web development. Websites are created by web developers. Their role is to ensure easy navigation, designing attractive interfaces and increase performance of the websites. Frontend is the client side of a website. It is where the user interacts with the website. Frontend developers work using HTML, CSS, JavaScript, Bootstrap. Backend is the server side of a website. It is restricted from the user and is used to store and manage data. Backend developers work using PHP, Java, Python, Node.js. Those web developers who do the work of both a backend and frontend developer is a full-stack developer.

Swecha is a non-profit organization which was founded in 2005. Swecha project works as an open-source project which provides free and quality software development models. The main aim of Swecha is to create an operating system for a population that speaks and understands only Telegu. This initiative will bridge the gaps caused by language and digitally unite the people. The operating system which they are developing is a Linux based OS in the Telegu language. The project has also developed a Telegu text to speech system which is integrated with the Swecha desktop. This may help the illiterate people who can use speech to their aid.

Swecha works in various fields like health, agriculture, EdTech, language, civic amenties etc. They have complied various projects on their website which include github repositories, statistical data using machine learning etc. Some of their projects are auto evaluation system, campus management system, fake news detector, speech recognition and dialog system, air quality monitoring, traffic information system. Swecha has many initiatives such as Code4Change, BalaSwecha, GirlsWhoCode, TechDays. The initiaves taken by Swecha are aimed towards providing free software models and tools to help various sections of society.