(TS) -7 one of the famous programming language that emot out their. We have integrated with TS in larguages. In

bosonsers their are a lot of functions available, fareydo cument get Element By 2d()... there kind of functions we have eneated sometimes now ar than in order to manipulate the dom. Or maybe we have used fetch request in order to download some data.

All of there features we might be aware about. But the tuning part is if we check the officed does of Is we won't find any because Is in itself is not that powerful that it can manipulate theogs on browser and download sure dute and all.

It's just like any offen programming language it can do looping spiff, it has functions, cortainorals all the basic shift but what happens behind the scene is that their is a concept of runtime, so if we

are aware of how asynchronously 35 wanks, we must have been already aware about the concept of mantime. So, what happens is 35 actually means inside a quintime

Runfine

JS

What this quitime does is?

5 It provides a lot of nessources in ferror of memory, in terms of writernal function and in terms of tot of enternal function wrong which the capability of Is is (enhanced)

Is gets across of lot of runtime features for eg: what browses do?

> Browsers can actually gendles

flTML far you So I gets the

functionality wing which it can

manipulate HTML far you

- It-gots capabilities of downloading some

functionality of Executing homes in the browsers directly

Is it is defendant on quintime what kind of architecture, what kind of function is admaly providing.

4) The genson Is is so versatile and is getting used in so many application is because of the quantime

Browser Schrone educe firefor &

There can be a case that some features are supported in one produced and some features might not be supported in some insures. Because each byourses is a separate orbity and together. There are separate from IS There's no standard regulation that emist so that's why something that may weakly in chrome in a contain way, may a maynot woulk in sprefore

Most of these browers provide similar set of API's although there's no compulsion but most of them have similar set of functionalities

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1) The brown based JS controlly your file system, but JS running itside Nodejs our file because nodejs actually allows JS to run inside terminal 11) Now since nodejs is different than browser, borouger based functional - sity won't exist, because as we mentioned before nodejs helps to nun ISI inside terminal, unside terminal we don't have any HTML so there's no point of having a st-document get Elements of thats what it does it aumores all the overloant API that are not arequired for you to interact to the system and provides some new set of API's that will be more relevant. So, that's the concept of mode's trat it's a nuntime it provides a set of memory based feature, architectural feature, provides a lot of function we can use directly with B, we won't find that in the downentation of B but because he are running Is inside node emvironment we will get access to all of these Features of Nodejs (1) Open Source (11) Brings raw IS features into our lorning so that can integral with 05 based feature. Difference between nuntine and framework? Ly funtine: An environment that provides resources for a particular program are process to run

for en - Here the program process is IS so browses for Node's provides lots of resources to Is to run

and advally access them Ly framework: framework or library depending on what scale we fore working on if there's a small library them it's called library only I ar if a big library them it's a framework: frame works provide a bunch of resources and features turing which we can actually build a lot of product

and can solve a problem

for on - Inside a lot of web apply we see signout and signin

and since it's Iso common front their are but of liberaries I framework for wo to do pluejion they and implement and authentication system in our own project.

So runtime ocheally empowers Is to run, and Is framework help to be use them as a tool in order to create to their features.