- one code to wake it beognition reads.
- when we use create React App, we already got a Small ready to production react app. It have now into it already.
- which wakes one abb tast most sear alone.
- → Borically 11 goes up have any full tosm.

  → Borically 12 onesofthing part not prope backages manages X
  - MPM basically helps in managing is adding different Parkages. (Parkages are pre-written texted code for a Specific task) into our protect. It is a collection of millions of packages.
- To use usen into our brotent.
- → new mit: It is like a pox too us noto which we can backages.

  Packages
- Parkages and informations organized at a Single place.
- with new mit we can add new into our proved.
- The way in which the pasts of Something, or a group of things are abranged.

- -> In package. Ison we can sett See all the installed packages is their versions in dependencies Section.
- o new package.

  → When we wate upm init, it asks us Some diestions like or use creating
- -> Packages & dependencies are Same.
- Bundles: It is a packages which basically bundles our

  Project and make it production ready.
- -> Some popular bundless are webpack, Parcel, Rollup, Vile etc
- -> A bundles takes all different files like css, Is, HTML etc and combines them in a Single oxganized unit.
- grand generolowers are solling sednixed the
- Normal dependencies can be also used during Production.
  - \* nom install -D passel: As bundles combines different files is minifies it, and we do it during production thaty that's why we are installing it as an development dependency.
  - > (1) costel: This is present in version of the dependency, luted in dependencies Section.
    - tox ex o 1.4.2 (1) coased only allows path vession to be major minor patch updated, it any new version comes automatically

- Then it will automatically install the minox updated

  Version only. From 1.4.2 to 1.5.0
- It we downow have any sign now tilde (w) now (n) carel, it cany updates of that dependencies comes it will not get installed automorphically.
- changes when were sport breams are in any negate will not pave on things might preak into our abli-

10/03/24 - 10 ck. J20 N:-. It keeps the second that of except version which is installed.

- -> Porkage. Jon: It keeps an approx version of Parkage.
- mill pe setherey ruto borkads-lock. 120 w. nom négote comes as 1.8.2 thou and bockads. 2200 mill semain same of 1.8.2.
- THE OWN GROBER.

  Sockade-lock. ITOU KEEDS the " RELORG of replicy reszlow " is installed from of and backade
  - > You may have food a Struction where you Say that "my deproyed it, it is not wasking!!!"
  - me have gittisent nessions of backages / gebeugencies.

- 70 Some this, parkage-rock. JSON have a thanh The known as integrity, whose it keeks track that energy down exiat nession is being used in production, as it is in my local storage.
- -> Mode-module: It is the dobabase as we can say that they are the octual copes of an the gebengencies as backaged mpigy me are mind in our broken.
- Transitive dependency o- As we installed parcel, in node modules we can see a file foider named as passed, it have all the code of boxes. But good contrit me can see allot of aggistional torget they are the dependencies of parcel.

Parcel can have 45 own dependencies, dependencies of parcel can also have their own dependencies and much mose. Su all these dependencies thus use available into node module and this property of dependencies are called transitive dependency.

- -> Every package which we install have their their own package-Ison and in their package. Iron their own dependencies packages are listed. Through which npm will know about the other dependencies and it will automotically install all of them.
- We gout mout to both oil upper works into one ditying or INTO OUX PRODUCTION ? No other we do gitter crease read age of the in } So add it into gitignore file, So that Ill will Ignore that file
- and not upload into githeth.
- -> Should I And backade of backade-lock. 2800 into lif & AR

changes which we have made into our project

GitHUB: A web based hosting Service for git repositories

- usp hone terminal.

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- All things which you can se-generate don't upload it into git

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  Package name

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  - magner. It will be more earies for mr.

    connection on the those can have the unde one waking another network application on the control of th
  - Due to version changes in realt, we need to update the can links. That's why use npm install react, npm install react—dom npm i is a short form of npm install browser
- 9d ton 1110 abox nuo, mot bass & tross printation resto 11th that conditions 21 tondar Bratzkylinu of elde

const heading = Realt. (seated mant ("hi", ?], "hia");

const soot = Realt Dom. (seateroot (down...);

our bower will not understand these keyourds

- imbort beach pour sears, brevers in vogs imbort beach pour sears.
- Also conte type = "module" into Script tag into HTML file because, impost or expost functionality is not available into Simple Java Script.
- when browser treats our Is file as Script then we get teatures like import or export into our Is file.
- \$ 600 or sead the documentation of Parcel \*
- and Stores it into dist forder. It creates a development build
- > When we do nex pascal build index.html. It Simplifies compress.

  I Production ready our app and shores 2 main follers into dist.

  Html, css & Is Is field and some map files.

Thus is because in pockage. Ison we have entry point i.e, main set there is a conflict.

Thus is because in pockage. Ison we have entry point as index. Ithmi, so there is a conflict.

There is a conflict.

To remove this exact map: "app. 12" From Package. Ison

There is a conflict.

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#### Who downloads the node modules at server because we don't upload it?

There are several ways <code>node\_modules</code> can be downloaded on a server, and who does it depends on your specific setup. Here are the most common scenarios:

#### 1. Automated Deployments:

- **CI/CD Pipeline**: When you push code changes, a CI/CD pipeline (Continuous Integration/Continuous Delivery) automatically builds and deploys your application. This pipeline often includes a step to install dependencies on the server using commands like <code>npm install</code> or <code>yarn install</code>. These commands fetch dependencies from the public registry and store them in <code>node\_modules</code> on the server.
- **Deployment Tools:** Specific deployment tools like Capistrano or Deploy.js might have built-in functionality to handle dependency installation during the deployment process.

### 2. Containerized Environments:

Docker Image: If you use containerization with tools like Docker, your containers can
include specific tools and configurations to install dependencies at startup. This could
involve embedding a package manager and its configuration within the container image
itself.

#### 3. Manual Installation:

• Rarely: In less common scenarios, you might manually install dependencies on the server using the same <code>npm install</code> or <code>yarn install</code> commands you use locally. This approach is becoming less frequent due to the rise of automation.

## Who Does It?

In most cases, **nobody needs to explicitly download or install dependencies manually** since automated processes handle it. The specific actor depends on your setup:

# **MODULES**

Modules are designed to be reusable, which means that they can be imported and used in multiple places in an application. In contrast, plain old JavaScript code is not organized into reusable units, which makes it more difficult to reuse and maintain.

In modules we have the feature of import and export, which was not available into old js.