

NODE.JS

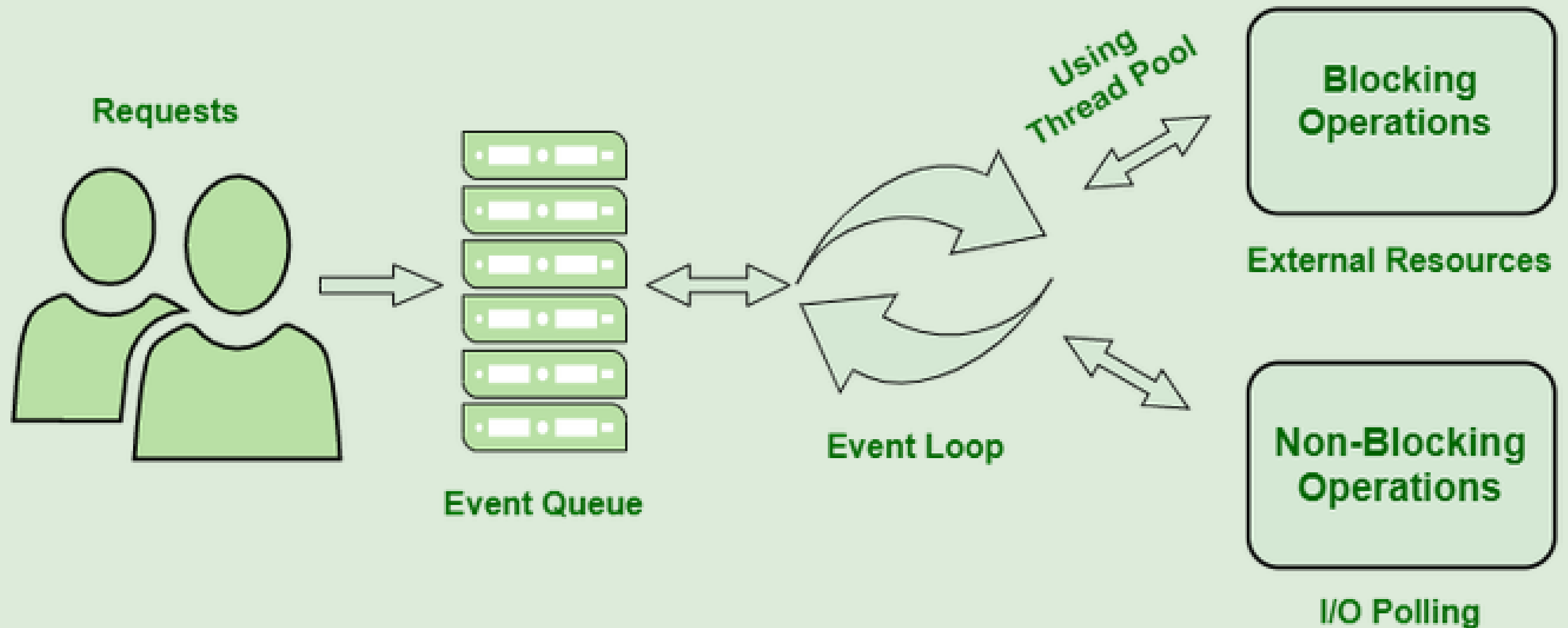
Agenda

- What is node.js
- Node.js architecture
- Features of node.js
- Node.js Modules
- Node Package Manager

What is Node.js?

Node.js is an open-source, powerful javascript framework developed on Chrome V8 engine. It is a cross-platform runtime environment and library that is used for running web applications outside the client's browser.

Node.js Architecture



Node.js Features

- **Open Source**
- **Simple and Fast**
- **Single Threaded**
- **Highly scalable**
- **Asynchronous**
- **No Buffering**
- **Cross platform**

Node.js Modules

Modules are the blocks of encapsulated code that communicate with an external application on the basis of their related functionality. Modules can be a single file or a collection of multiple files/folders.

Types of Node.js Modules

- **Core Modules**
- **Local Modules**
- **Third party Modules**

Core Modules:

- **http**
- **url**
- **fs**
- **os**

```
const module = require('module_name');
```

```
var http = require('http');
```

Node Package Manager

NPM is a default package manager for node.js which is entirely written in javascript

A package contains all the files needed for a module and modules are the JavaScript libraries that can be included in Node project according to the requirement of the project.

NPM consists of two main components:

- a CLI (command-line interface) tool for publishing and downloading packages,
- an online repository that hosts JavaScript packages

THANK YOU