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**Deploying a ReactJS Application on EC2 instance**

Introduction to Cloud Computing- Project Proposal

**INTRODUCTION:**

Deployment is the mechanism through which applications, modules, updates, and patches are delivered from developers to users. The methods used by developers to build, test and deploy new code will impact how fast a product can respond to changes in customer preferences or requirements and the quality of each change.

The cloud offers businesses more flexibility overall versus hosting on a local server. And, if you need extra bandwidth, a cloud-based service can meet that demand instantly, rather than undergoing a complex (and expensive) update to your IT infrastructure.

**ABSTRACT:**

Getting to market quickly is vital, yet startups have challenges owing to budget, people resources, etc. IT projects must manage back-end, front-end, and database developers to produce a full-stack web application, which is time-consuming and expensive. Small firms need rapid and affordable solutions. The cloud offers enterprises greater overall flexibility than local server hosting. Amazon EC2 delivers secure, resizable cloud computing power. It helps developers with web-scale cloud computing. Amazon EC2's web service interface makes obtaining and configuring capacity simpler. It gives you full control of your computer resources and runs on Amazon's proven ecosystem.

**PURPOSE:**

Cloud computing makes data backup, disaster recovery, and business continuity easier and less expensive because data can be mirrored at multiple redundant sites on the cloud provider's network.

Hosting on the cloud makes applications and websites accessible using cloud resources. Unlike traditional hosting, solutions are not deployed on a single server. Instead, a network of connected virtual and physical cloud servers hosts the application or website, ensuring greater flexibility and scalability.

This is the main purpose of our project, efficient deployment of a website which we worked on as our previous project.

**KEY FEATURES:**

* Responsive Weather Application Using the ReactJS Stack
* Allows you to search for current weather conditions by selecting city/country names. Using WeatherAPI
* Creation of Ec2 instance followed by deployment

**Course Teacher:** Mr. Junaid Shuja

**SIGNATURE:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_