**VIRTUALIZATION PROJECT PROPOSAL:**

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| **1. Title** | Collab  A Django Application that will run on Kubernetes cluster hosted on GCP |
| **2. Team members** | -Suraj Mandal  -Venkata Narasimha Vedavyas Muppavarapu.  -Harsh Tejani |
| **3. Goal** | -Multiple users will be able to use the application simultaneously using load balancer with Kubernetes |
| **4. Scope** | -This involves full stack development, where GCP acts as host, successful deployment of the application on Kubernetes. |
| **5. Approach** | -Every Individual is responsible for individual components, unlike dividing the project into frontend, backend, cloud, 3 of us will pick up piece of functionality, work simultaneously where ever required in tech stack, explore different technologies together that are required. |
| **6. Methodology** | **-Agile Methodology**  - Python, GCP, Kubernetes, Django, DB(Nosql/rdbms), socket, webservices, dev tool(pycharm/anaconda), vs code/intellij, GIT. Restful services. NodeJS (if required)  -> Development - Sign up, log in, log off of users, user crud, video streaming/calling, user chat.  -> Testing, packaging, deploying in Kubernetes cluster, hosting in cloud platform. |
| **7. Summary** | -3 of us will learn how to use GCP, different tech stacks, working in agile environment to meet deliverables, testing, development, team work, exposure to socket, webservices, working on functionality gives exposure to understand business requirements, documentation, delivering professionally as per deadlines given. |