Our application is going to be 2 tier- cloud based application and it will be based on amazon lightsail with LAMP stack. LAMP stack is the abbreviation of Linux, apache, mysql and php.

Amazon lightsail is simple management interface that deploys projects to the cloud.

These things on the slide are features that are supported by Amazon lightsail.

Amazon RDS, which is Amazon Relational Database Service, we will be using mysql.

AWS elastic beanstalk which is an easy-to-use service for deploying and scaling web applications and services. This is where we will upload our codes.

We will be using Python as language and Flask as a framework for our user authentication.

Amazon s3 is like a storage that you put files. Amazon ec2 is a virtual machine in Amazon.

Load balancing is for efficient traffic of data. Autoscaling is for managing number of instances

However since the size of our project is pretty small, we will be focusing on Amazon RDS and Elastic beanstalk.

Here is our MVPs.

First, login page. Login page will be structured by using Flask in terms of user authentication.

Second, upload users for admin. Administrator can bulk upload users by uploading an excel sheet containing the information of the users.

Third, create project for admin. Administrator can add a project into the system.

Fourth, work breakdown structure for project manager. Project manager will be able to add or edit categories in the WBS as needed.

Fifth, weekly report for project manager. Project manager can view the project report of current week and previous weeks. And they are also able to print the report out.

Last, timesheet for employee. Employees can fill in their timesheet weekly and it will be updated into the system.

By today, we are wrapping up our development which is for moqups and use cases.

At the start of COMP4900, we will be heading into stage 2. Referring to our MVPs , we will get started on actual coding and testing. Dorothy and Syrra will be working on frontend and myself and Alan will be working on backend.

Once, coding is done, we are going to integrate our works and deploy our codes on the top of the lightsail.

Here is our first draft of our data model. Currently we have four entities. Project, category, task and user.

Each entity has randomly generated unique ids. And there are relationships between each entity.

One Project can have many categories. One category can have many tasks.

And one user can have many tasks.