

Cloud Computing Final Projects

I. Cloud File system (65-115)

Establish a cloud-based management system to monitor users' data uploads and downloads. Users must first register with a username and password to upload, view, or download data from the cloud

Basic Function:

1. **Cloud Computing Environment setup:** Basic setup and create landing page (15%) [api gateway + lambda + S3] or [Aurora RDS+EC2] . * **remember to show your name, ID on the landing page.**
 2. **DB operation:** Registration page (15%) -> for users who is new to use the system can register his/her account and keep account information in s3 or AWS database
 3. **DB Connection:** login/logout (password check) (15%)
 4. **Cloud Watch:** demo the correct/error login through the cloud watch (5%)
 5. **Files operations:** preview/open/download/upload/delete/rename (minimum requirement **upload, download, view** 15%) (extra one function 5%, at most 30%)
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6. **Extension 1:** for different user different landing pages (10% for 2 types of user, 20% for 3 types of user. No extra credit if only one type of user) [e.g. 2 different roles, **normal user** can only view and upload files/ **admin** can rename, delete...]
 7. **Extension 2:** Create by yourself (e.g. data visualization, event trigger notification...)(at most 10%)
 8. **Extension 3:** Nice User Interface and User Experience (at most 5%)

Documents:

1. First Page: your landing page (including your Name and Student ID)
2. Page 2. The table in your database or the folder in your S3 buckets
3. The web page of your DB connection/file operations (choose one)
4. One snapshot of your cloud watch
5. Upload the document on E-course on time. **“No late submissions accepted!!”**