Master Ontology App Architecture

1. Following components are suggested as the application moves beyond the POC stage. Rest of the components are present in the application currently
   a. Static Content (AWS S3 + Cloudfront): To be used to host frontend application to make it scalable and faster.
   b. Read Replica (AWS RDS DB): For improved read time, high availability, scalability, and analytics.
2. Enhancement to existing components
   a. CloudTrail logging is currently extensively used for Lambda functions. It should be enhanced to utilize insights from all services and it will also help fix errors quicker.
   b. Lambda functions are currently being deployed manually. It should be automated going forward.

```
AWS Lambda          AWS Cognito          AWS Lambda              App Logic              AWS RDS
(Post Sign   <----  (SAML-SSO    <---->  (Manage      Instance 1      <---->  DB (Read
Up on Email         Authentication)      Users)                 (AWS Lambda)            Replica)
Confirmation)

End User                                 AWS API                App Logic              AWS RDS
Desktop      <----> Client      <---->   Gateway     <---->     Instance 2    <---->   DB
Client                                                          (AWS Lambda)           (Master)

                    Static                                      App Logic              AWS RDS
                    Content                                     Instance 3    <---->   DB (Read
                    (AWS S3 +                                   (AWS Lambda)           Replica)
                    Cloudfront)
```