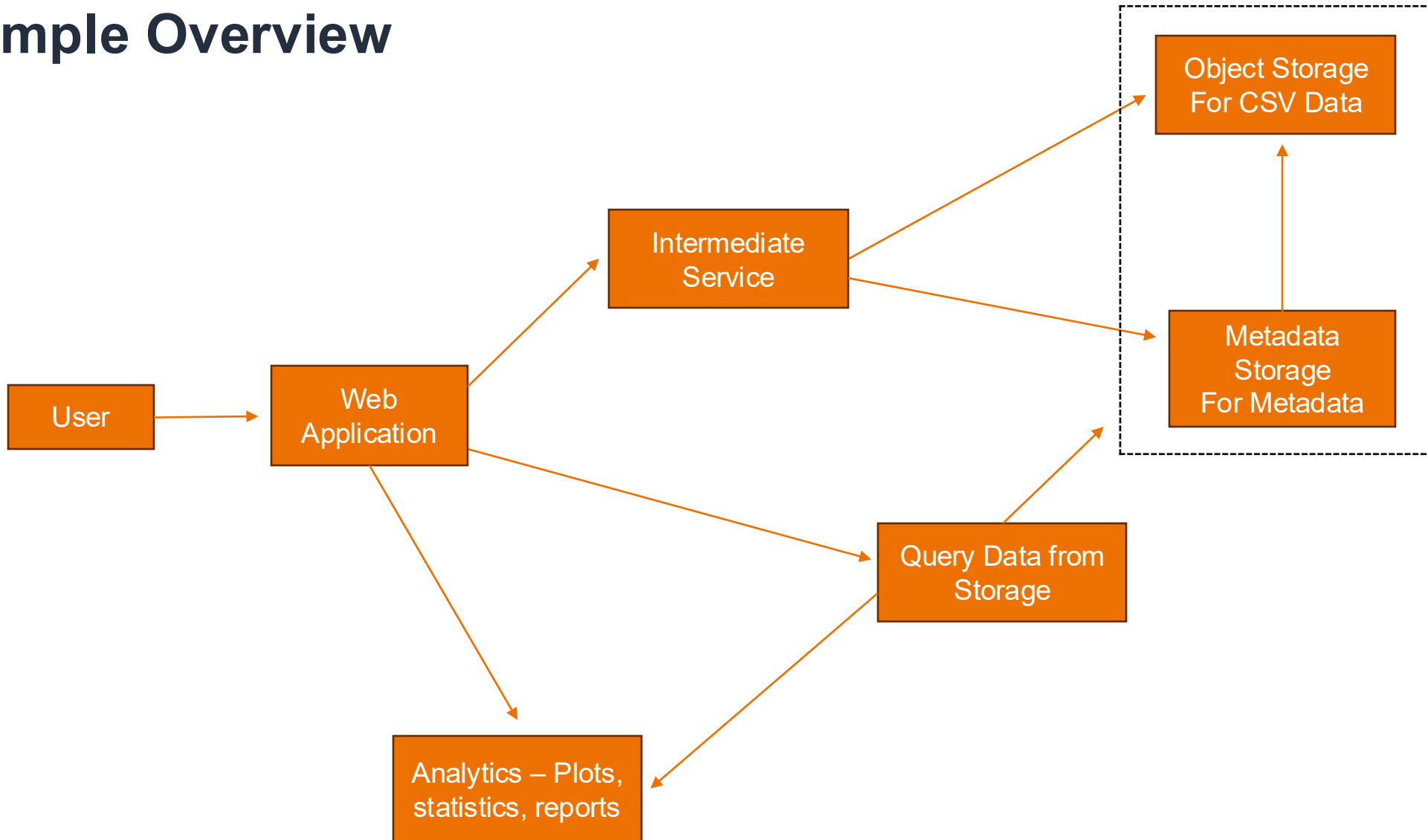
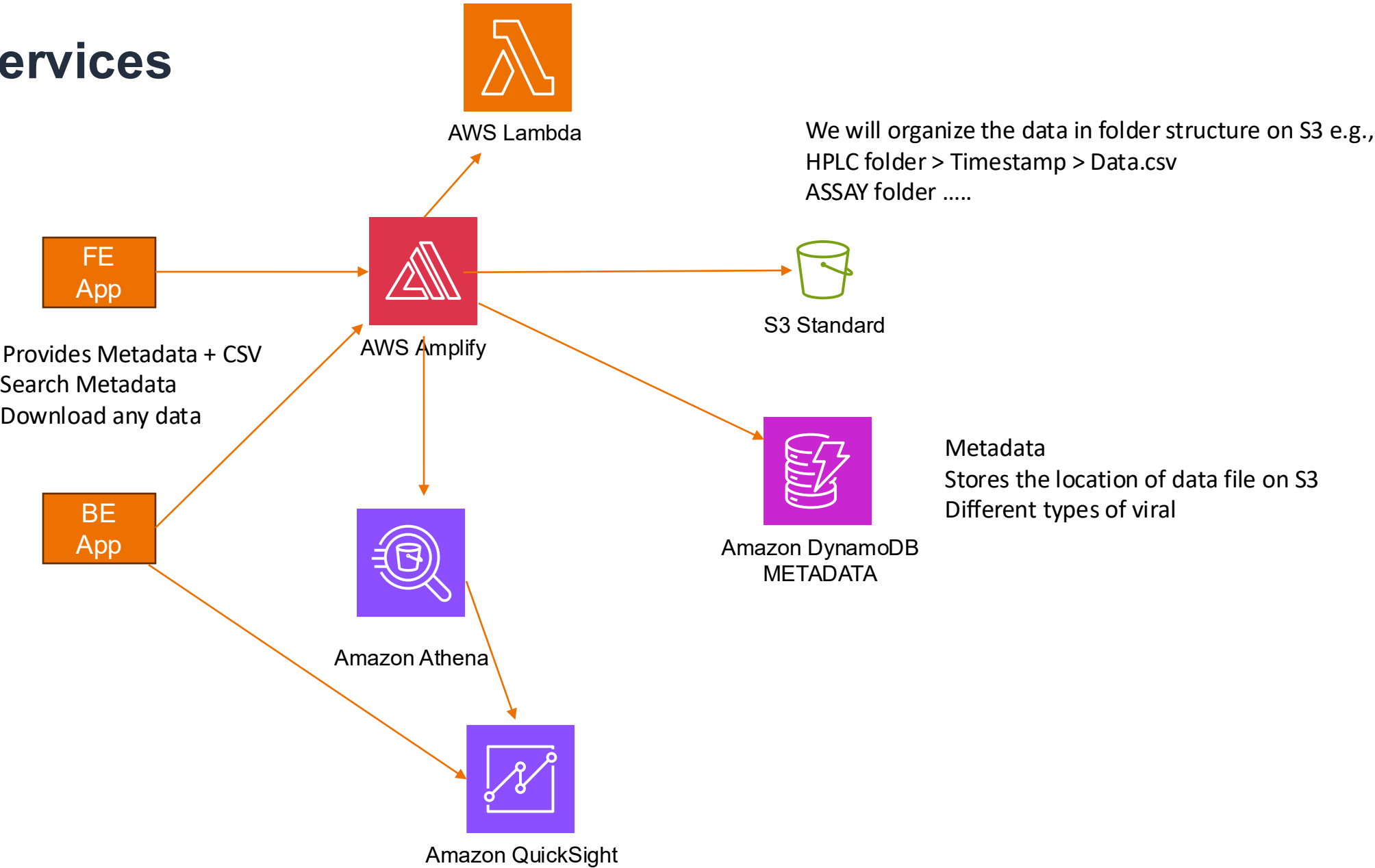


Simple Overview



Services



Database Choice



Amazon DynamoDB

-
1. Serverless
 2. More Scalable
 3. Can store petabytes of data
 4. More Data Secure



Amazon DocumentDB

-
1. Requires Server Management
 2. Less Scalable
 3. Maximum storage of 64 TB
 4. Less Data Secure

Metadata Schema

Entity	PK	SK	Data	GS11 PK	GS11 SK	GS12 PK	GS12 SK
User - RW	USER#userID/username	USER#userID	*JSON Object* - General Info		timestamp		timestamp
Product - RW	PROD_COMP#company	PROD#prodID	*JSON Object* - Name, Company, etc		timestamp		timestamp
Ligand RW	LIG#ligandID	LIG#ligandID	*JSON Object* - Name, Company, etc		timestamp		timestamp
Purification - RW	PURE#prodID#ligandID	timestamp	*JSON Object* - Elution, Wash, Strip, etc	prodID#ligandID	timestamp	Operator	timestamp
Analysis - HPLC	HPLC#prodID#ligandID	timestamp	*JSON Object* - Time, UV1, UV2, Fluoresence	prodID#ligandID	timestamp	Operator	timestamp
Analysis - Assay	ASSAY#type#prodID#ligandID	timestamp	*JSON Object* - <i>Position</i> , Dil Factor, Volume	prodID#ligandID	timestamp	Operator	timestamp
Chromatogram	CHROM#prodID#ligandID	timestamp	*JSON Object* - UV, Cond, Injection, pH, etc	prodID#ligandID	timestamp	Operator	timestamp
Analysis - SDS PAGE	SDSPAIGE#prodID#ligandID	timestamp	*JSON Object* - Time, Buffer, Voltage, Gel Image	prodID#ligandID	timestamp	Operator	timestamp
Analysis - miniTEM	miniTEM#prodID#ligandID	timestamp	*JSON Object* - Sample prep/vol, stain tech, img	prodID#ligandID	timestamp	Operator	timestamp
Analysis - SEC MALS	SECMALS#prodID#ligandID	timestamp	*JSON Object* - RIU, Detector V, AU	prodID#ligandID	timestamp	Operator	timestamp
Upstream - Input	US_INPUT#prodID	timestamp	*S3 Object* - Input Conditions	prodID	timestamp	Operator	timestamp
Upstream - Cell Countner	US_COUNTER#prodID	timestamp	*S3 Object* - Passage No, Read No, Average	prodID	timestamp	Operator	timestamp
Upstream - Rebel Analyser	US_REBEL#prodID	timestamp	*S3 Object* - Dilution Factor, Amino acids, Conc, SE	prodID	timestamp	Operator	timestamp
Upstream - Analysis	US_ANALYSE#prodID	timestamp	*S3 Object* - Analysis Details same as DS	prodID	timestamp	Operator	timestamp