Requirements

Tinder architecture:

1. Store profiles (Images) - 5 per user
2. Recommend matches (Number of active users) = n
3. Note matches $n \times 10^{-3}$ considering there is 0.1% match.
4. Direct mapping

Image storage : Files v/s Database

Binary v/s Object (BLOB)

why not use it for images

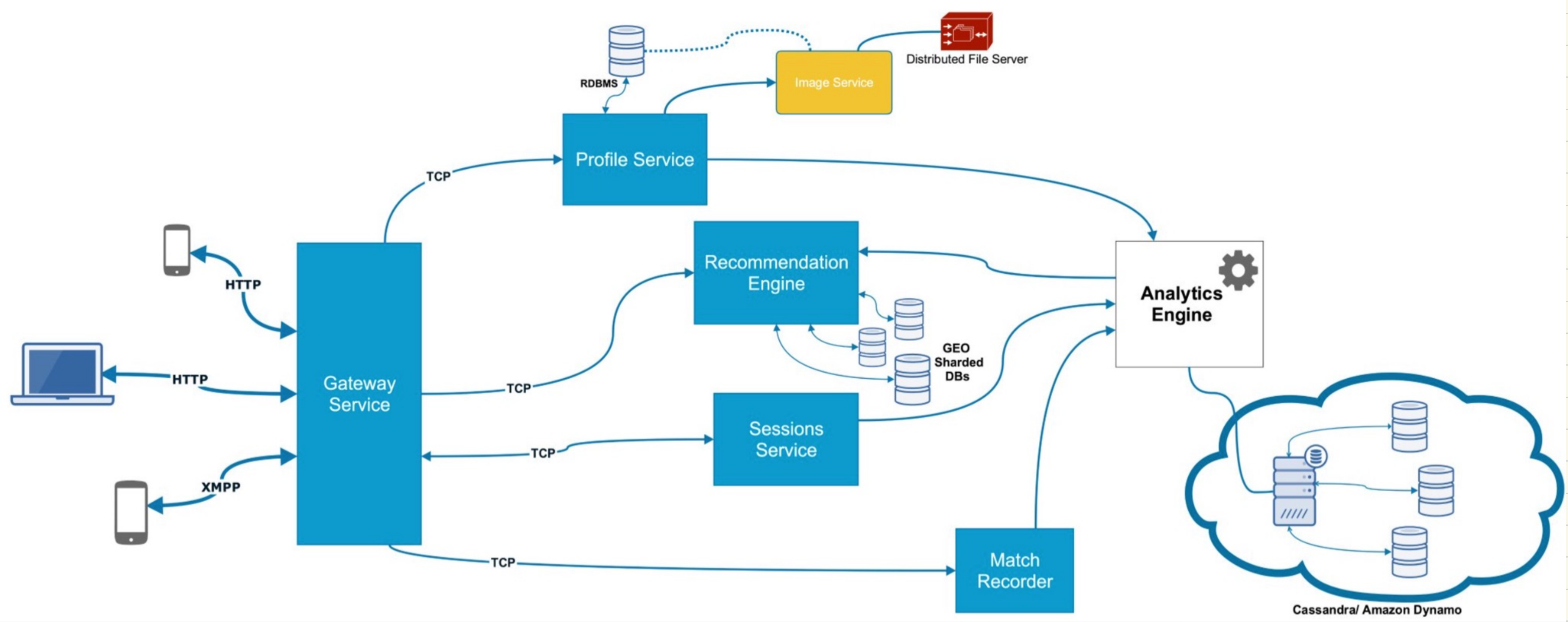
DB gives

1. Mutability → we wont be changing part of image it would be a new image so why not create separate file
2. Transaction guarentee → no atomic operation on the image
3. Indexes → we won't be searching in the blob (it is like 10...01)
4. Access control

Files

1. cheaper
2. Faster
3. Content delivery network

profileId	imageId	fileURL



In this design the profile service acts as an authenticator. And the gateway goes to the profile service to validate authenticity before redirecting to any other service