

Fily

*A cloud based
file sharing application*

Mathieu Devaud
Frederic Montet

Presentation Plan

- Application Context
- Application Requirements
- Used Technologies
- Choices and Key Aspects
- Application Concept
- Demonstration
- Encountered difficulties
- Conclusion

Application Context

Development of a file sharing service by invitation based on AWS S3

- File sharing system on Amazon AWS S3
- Application user can generate links to upload files
- Invited users are able to upload files without authentication
- No full user account mangement



Used Technologies



Amazon S3

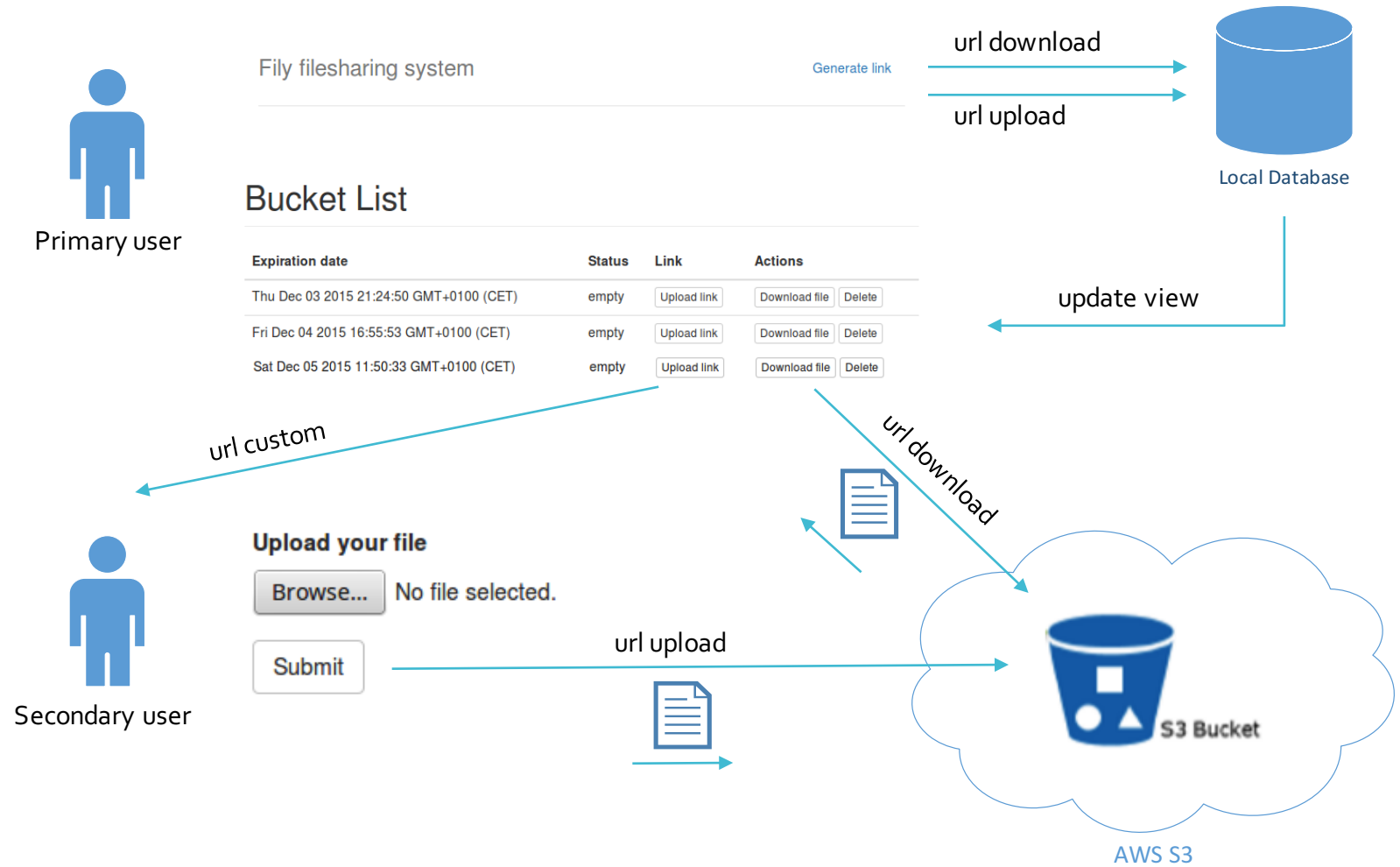


Amazon Elastic
Beanstalk

Choices and Key Aspects

- Use AWS S3 JS SDK to minimize client - server requests
- Using UUID for key unicity in a bucket
- Change the CORS parameters of the bucket to allow upload
- Generate valid PUT presigned URL to upload
- Generate valid GET presigned URL to download
- Use ajax to build a valid request to the presigned URL

Application Concept



Demonstration

Encountered difficulties

- Signature mismatch
- Nested ajax requests
- Webkit boundaries due to `formData()` objects

Future Improvements

- Handle the boundary problem when uploading
- URL shortener
- Full user management
- Client applications

Conclusion

- File transfer is not easy
- 90 % objectives reached
- Lots of new things learned (the hard way)
- For productivity, choose the most commonly used SDK
- For product oriented developement, choose the SDK that fits best with your requirements
- Good team spirit

Questions ?

Thank you

