UMLS
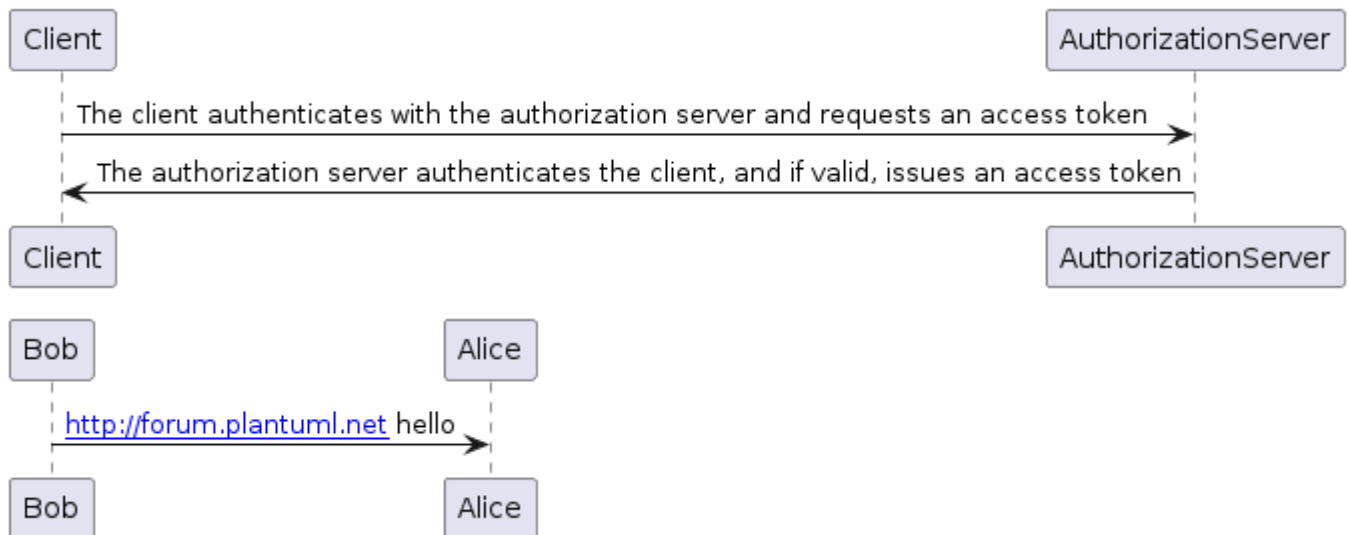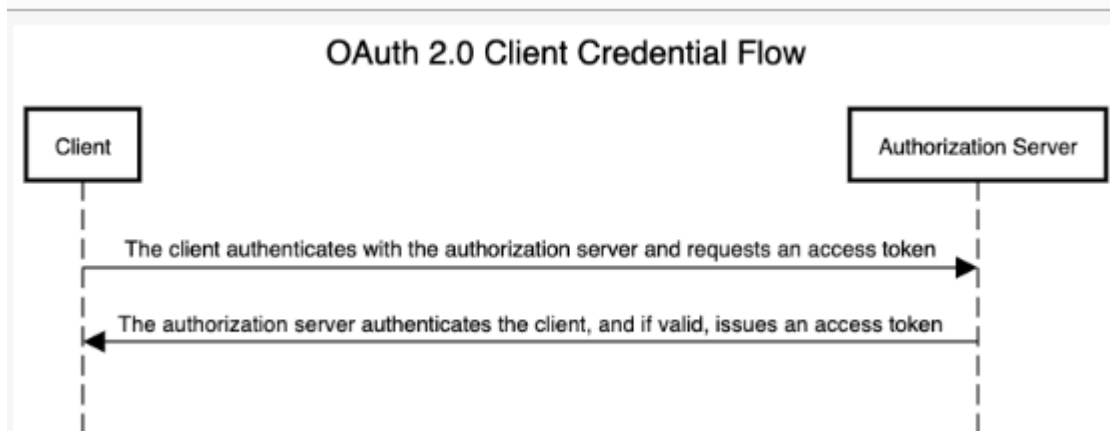
Client Credentials Flow:
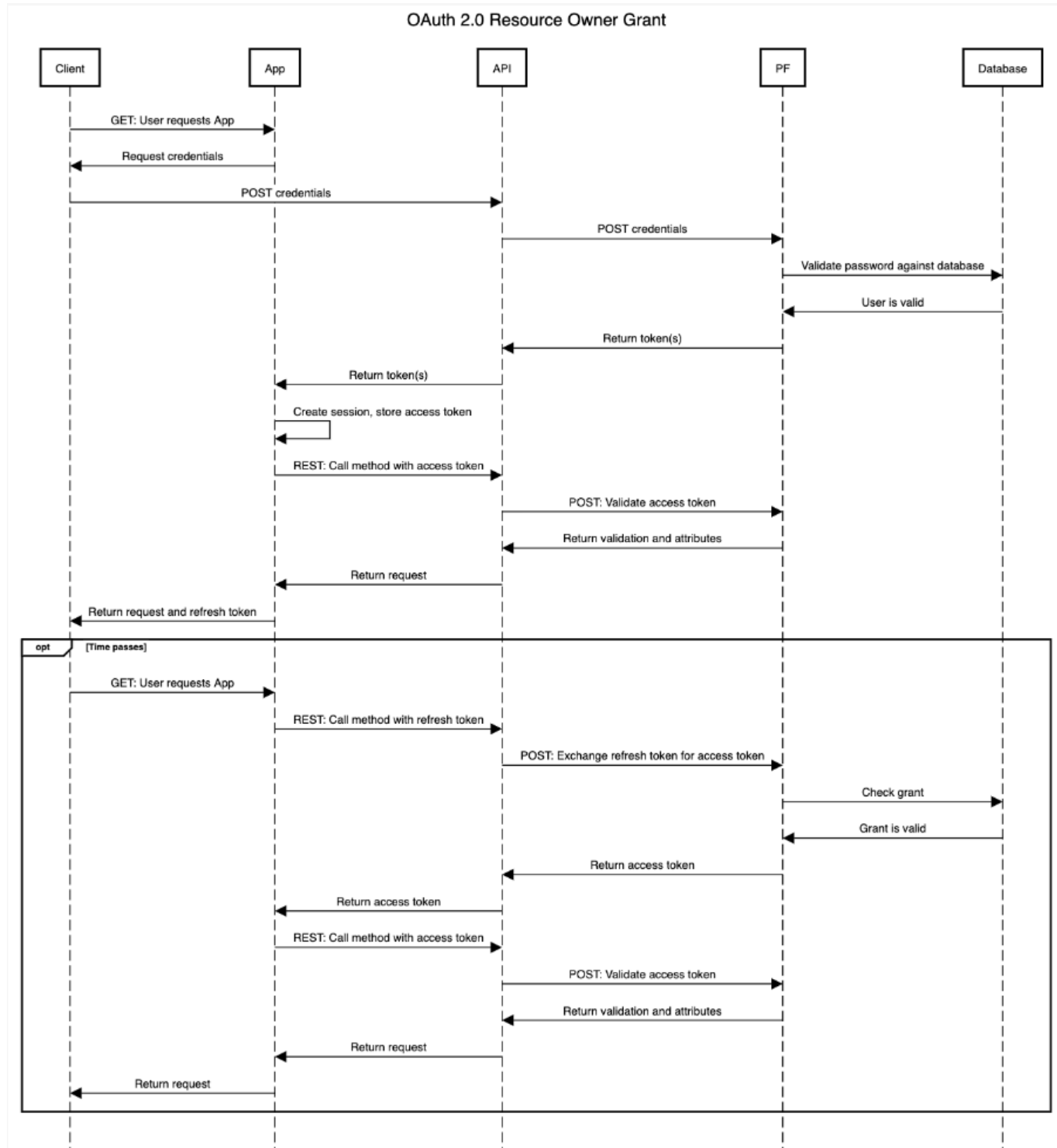
https://sequencediagram.org/index.html#initialData=C4S2BsFMAIHkEECuwAW0BMA6ADNAwuCJAHbD4BOkAJiaAIbjQBi4A9gO4BQBRpAtAD4kqVuRAAvOqFbFoAZUjkAbooBc0ACooYAY0K1odZNtIgdUyAGdo7MGlQwjIsZOmzLileUPEq0SgCOiFbA1nSydDo6VtbArADWJJzCKKlSUiAy8p6Kgjy06lqOxmmume453k4moObAVtAO0Hq8wAA0Pn4gAGbQSgwgVB0glpbBYRFRMY0JSUA

Resource Owner Grant:

https://sequencediagram.org/index.html#initialData=C4S2BsFMAIHkEECuwAW0BMA6ADNASpAM4D2iATgMYYwDuAdpGdAOJkCGdwAUAMLgiROAWgB88AA7iAXCwCiAFRkBVQo2hIIAR0RFghaBPFdDovgM4yC23dAoaAJoNBtwhXvyej4ABQCSM71gAZXIbBycQFzzcfX1FvADEA4NNC7SEdOSNcuBNEAETZgNgjAjNlUZADUXEHsCmHFSwhpiMntoNgBzNhA6QmBoGsKS1S58wdLIOMToFTUQfQA3Kvts+K8-S0hgcjpoYGIAa0EACkIASmM-L0kNrbIdvcO6E-OTMWvoHg1a6FVCQhBiHQADQ-PYaNoUKh-OTMWvoHg1a6FVCQhBi

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OAuth 2.0 Resource Owner Grant

https://sequencediagram.org/index.html#initialData=C4S2BsFMAIHkEECuwAW0BMA6ADNJqB
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OAuth 2.0 Authorization Code Grant

App	API	Browser	PF	IdP	Database

App → API: GET data

API → App: Redirect to IdP

App → Browser: Handoff

Browser → PF: GET: StartSSO

PF → Browser: Return SAML AuthN

Browser → IdP: POST: SAML AuthN

IdP → Browser: User is authenticated, return SAML Assertion

Browser → PF: POST: SAML Assertion

PF → Database: Store Grant

PF → Browser: Redirect with Code

Browser → App: Handoff with code

App → PF: GET tokens for code

PF → App: Return access and refresh token

App → App: Create session, store tokens

App → API: REST: Call method with access token

API → PF: POST: Validate access token

PF → API: Return validation and attributes

API → App: Return request

opt [Time passes]

App → API: GET: Data

API → App: Session is expired

App → PF: POST: Exchange refresh token for access token

PF → Database: Check grant

Database → PF: Grant is valid

PF → App: Return access token

App → App: Create session, store token

App → API: REST: Call method with access token

API → PF: POST: Validate access token

PF → API: Return validation and attributes

API → App: Return request