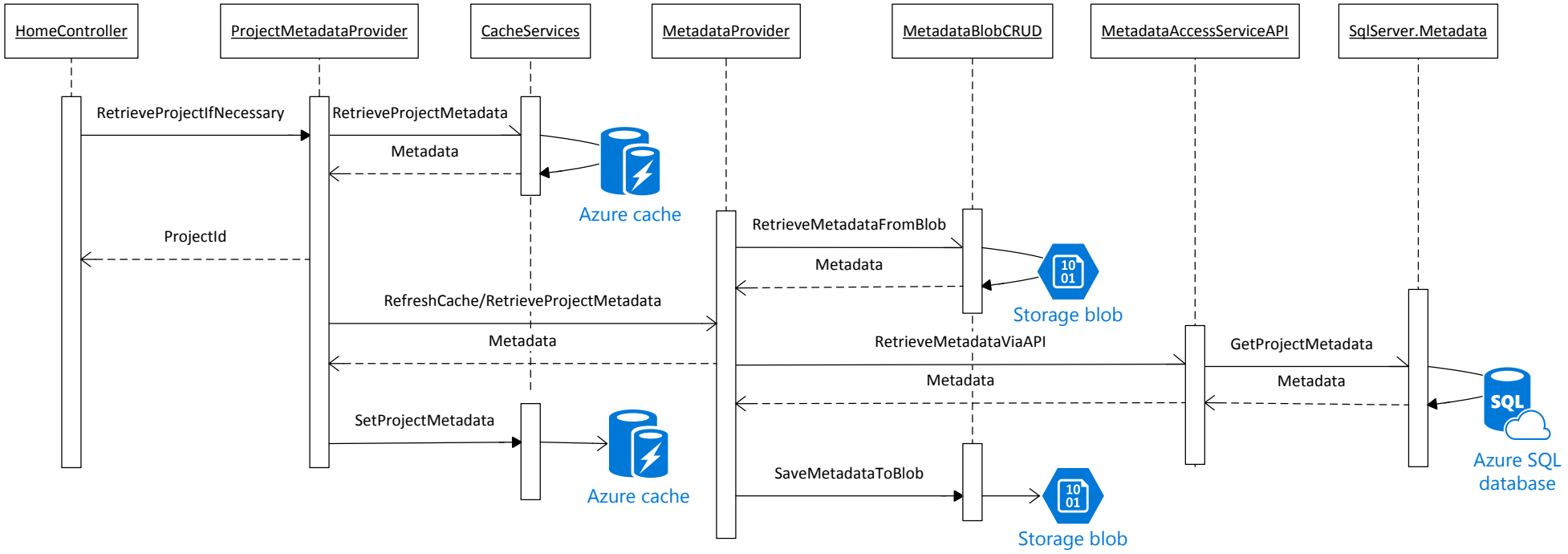
Prime The Metadata Cache



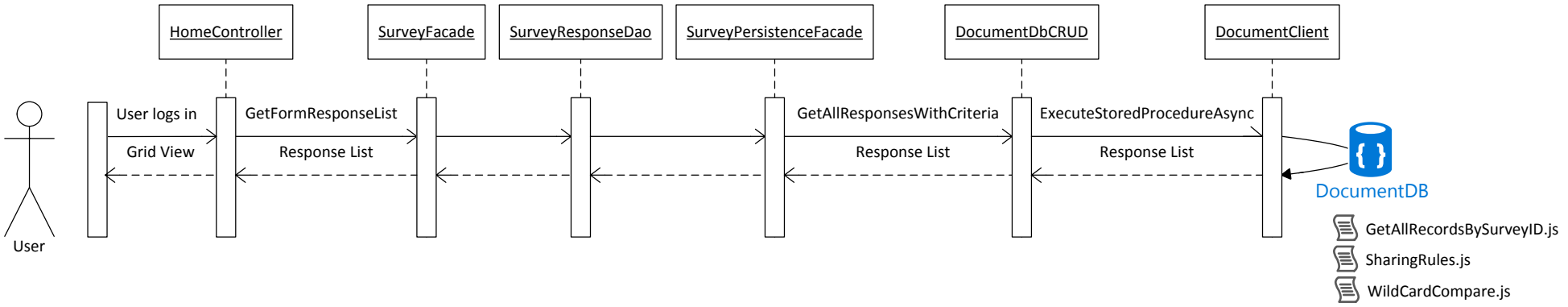
The Home Controller checks if the ProjectId is in Session. If not, the Project Metadata Provider is called at GetProjectId_RetrieveProjectIfNecessary. This call will initiate a loading of cache with project metadata if necessary and return the ProjectId, which is then saved in Session.

The Project Metadata Provider attempts to retrieve the project metadata from Azure Redis Cache. If the metadata is retrieved then the ProjectId is returned to the Home Controller.
If the metadata is not found in cache then the Metadata Provider is called to retrieve the metadata from BLOB storage or Sql Database.
When the project metadata is returned the Cache is refreshed and the ProjectId is returned to the Home Controller.

The Metadata Provider attempts to retrieve the metadata from BLOB Storage. If the metadata is retrieved then the project metadata is returned to the Project Metadata Provider.
If the metadata is not found in BLOB storage then the Metadata Access Service API is called to retrieve the metadata.
When the metadata is returned via the API the metadata is saved to BLOB storage.

The Metadata Access Service API Project Controller calls via the ProjectProxyService to retrieve the project metadata from the Azure SQL database.

Retrieve Responses To Populate Grid



The user logs in and is redirected to the Home Controller. The user is presented with a list of forms that he/she is authorized to interact with.

The user selects a form. If only one form is available then that form will be automatically selected for the user.

The Home Controller uses an instance of the Survey Façade to call GetFormResponseList passing a SurveyAnswerRequest object which defines the criteria to be used to filter and order the list of responses.

The Survey Façade uses an instance of Survey Response DAO to call GetFormResponseByFormId.

The Survey Response DAO uses an instance of the SurveyPersistenceFacade to call GetAllResponsesWithCriteria.

The Survey Persistence Façade uses an instance of Document DB CRUD to call GetAllResponsesWithCriteria.

A SQL-like query is generated that includes a representation of the query criteria including calls to SharingRules and WildCardCompare JavaScript User Defined Functions to facilitate the more complex filtering requirements.

The `Microsoft Azure Documents Client API ExecuteStoredProcedureAsync` is called to invoke the GetAllRecordsBySurveyID JavaScript stored procedure with the SQL query string passed as a parameter. The resulting list of responses are returned.