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| **Name** | **1.3.3.5 Federator to External Database View** |
| **Purpose** | Illustrate the flow of data for the data request made by the federator to the external database component of the Storage. |
| **Description** | The federator requests data from the external database to one of its four proxies. The proxies then format the request to suit the APIs of the external dependencies before sending the request to them. The external dependencies then return the requested data. |
| **Requirements** | 8,17,21,22 |
| **Elements** | **1.3.3 External Database:** Contains the various proxies that handle the request to the external entities. |
| **1.3.1 Federator:** Organizes the data requested for the Logic component. |
| **1.3.3.1 Shibboleth Proxy:** Knows how to request and store data received from Shibboleth, mainly a verification token. |
| **1.3.3.2 Jenzabar Proxy:** Knows how to request and store data received from Jenzabar, mainly BYUI class schedules and information. |
| **1.3.3.3 BYUI Interactive Map Proxy:** Knows how to request and store data received from BYUI Map. Mainly distance between two classes. |
| **1.3.3.4 Rate my Professor Proxy:** Knows how to request and store data received from RMP. |
| **Token Request:** Authentication token requestfor shibboleth**.** |
| **Classes Request:** Request for class schedules/information. |
| **Distance Request:** Travel distance request, usually with starting position and destination. |
| **Ratings Request:** Request for reviews for a professor. |
| **Token:** Authentication token from shibboleth for Jenzabar. |
| **Classes:** Available classes information for a course. |
| **Distance:** Travel distance between two points from BYUI interactive maps. |
| **Ratings:** The review of a professor provided by rate my professor. |
| **Referenced By** | 1.3 Storage view |
| **Viewpoint** | Data Flow Diagram |