Current user story: user can upload a file (excel/csv/plain text) to server, and do data analysis on top of the uploaded data.

Workflow:

|  |  |  |
| --- | --- | --- |
|  | Client | Server |
| Upload | pick a file, send to backend |  |
|  |  | receive the file  parse the data to raw table  (preview mode return sample data)  return column name to client (suggest attribute/metric later)  return cubeid |
|  | display column name;  verify attribute/metric;  provide cube name;  click publish |  |
|  |  | publish to in-memory data structure  persist to disk  return metadata |
|  |  |  |
| Create from existing cube | get cube list  pick a cube |  |
|  |  | return metadata based on the cube id |
|  |  |  |
| Analysis | Create template  Put attributes/metrics to template  click execute |  |
|  |  | subset(base, view template)  return result json (grid, graph) |

JSON command: a series of actions to be performed by server

{

"comment": "action.t, 0: upload, 1: publish, 2: get md, 3: execute template",

"actions": {

[{

"t": 0

},

{

"t": 1,

"column type": [

"A", "A", "M", "M"

],

"nm": "cube name"

},

{

"t": 2,

"did": "data set id"

},

{

"t": 3,

"did": "data set id",

"template": {

"comment": ""

"tid": "template id",

"ats": [{

"id": "attribute id",

"fm": "forms",

"fmt": "format"

}],

"mts": [{

"id": "metric id",

"fmt": "format"

}]

},

"rst": "grid/graph"

}

]

}

}