Astronomical Objects Browser
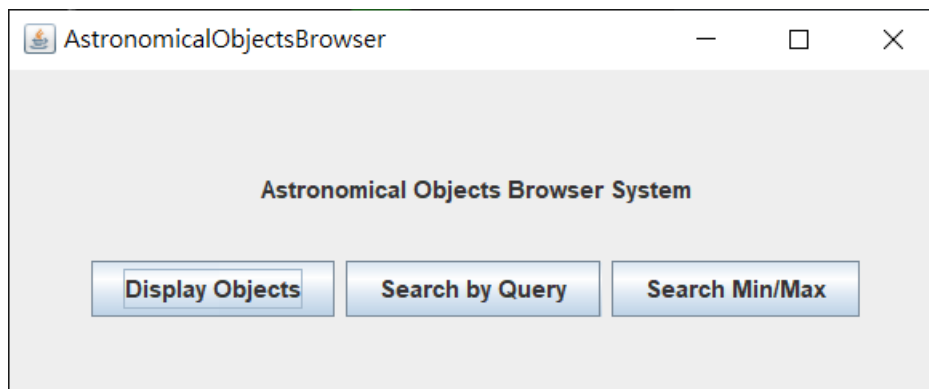
a. Structure diagram

b. Screenshots illustrating

1) Browser main menu

2) Frame for "Display Objects" button in main menu

3) Frame for buttons in picture 2 (Take "Stars" as an example, another two have same format with it).

2678 star objects are founded:

ID	Ra	Declination	Magnitude	Distance	Constellation	Type
88	0.26916	-48.809859	5.71	543.3	Phe	G
122	0.399379	-77.065294	4.78	220.3	Oct	M
145	0.455989	-3.027479	5.13	407.5	Psc	K
154	0.489965	-6.013972	4.37	412.7	Psc	F
171	0.540188	27.084489	5.8	40.4	Peg	B
183	0.582976	-29.720448	5.04	509.4	Scl	M
194	0.623989	8.485579	5.7	123.0	Psc	B
301	0.934885	-17.33597	4.55	228.0	Cet	F
330	1.056932	62.287665	5.9	3622.2	Cas	G
355	1.12551	-10.509494	4.99	1630.0	Cet	B
443	1.333941	-5.707833	4.61	128.3	Psc	A
476	1.424732	13.396282	5.55	370.5	Peg	K

4) Frame for "Search by Query" button in main menu. "Add query" to add query

into the following table. "Update" can update query that is chosen. "Delete" will delete the query is chosen. "Search" will search all queries that are in the "Added Query" table.

5) Frame for "Search" button in picture 4. The ID lists can be viewed by selecting a query.

6) Frame for "Search Min/Max" button in main menu
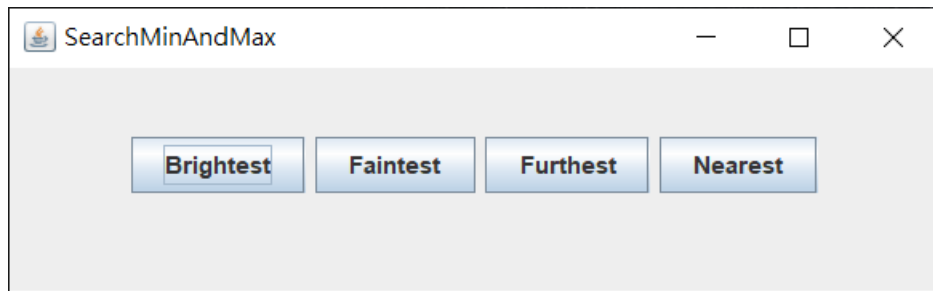
7) Frame for buttons in picture 6 (Take "Faintest" as an example, others have same format with it).

Star:

ID	Ra	Declination	Magnitude	Distance	Constellation	Type
10729	34.519165	57.516326	5.99	708.7	Per	A
11095	35.718642	-73.645821	5.99	316.5	Hyi	A
39236	120.376191	16.455323	5.99	472.5	Cnc	K

Planet:

ID	Ra	Declination	Magnitude	Distance	Albedo
Pluto	268.1792	-16.5339	13.7	4.542E-4	0.55

Messier:

ID	Ra	Declination	Magnitude	Distance	Constellation	Description
M91	188.766667	14.5	10.2	6.0E7	Com	