Item Genie

Analysis software for item comparison Matcha: Lee Zhi Xin, Peng Ziwei, Zhao Yang

See first, talk later

System demomstration

Inspiration

Rapidly changing game situations

Inspiration

Constant patching and updates

Inspiration

A thirst for strategy

Who will love our program?

Serious gamers

Who will love our program?

Beginners

Who will love our program?

And even game designers

Type of system

Non-real-time

Type of system

Client-server application

What it does

Compares across multiple attributes between multiple items

What it does

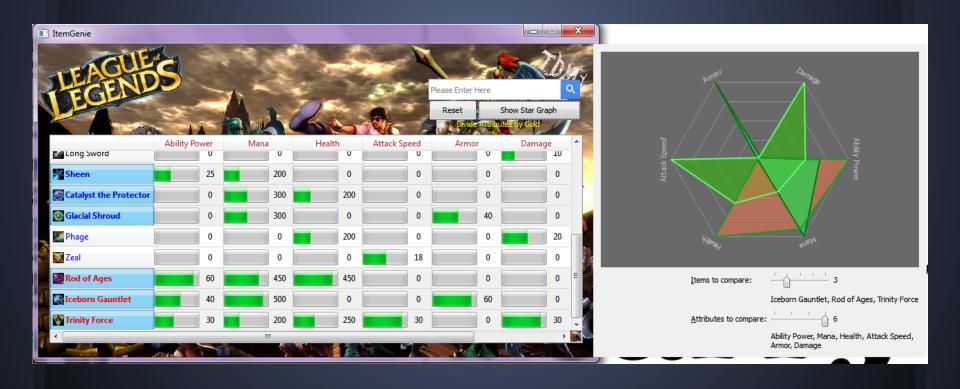
Informs users how much value they are getting for each gold

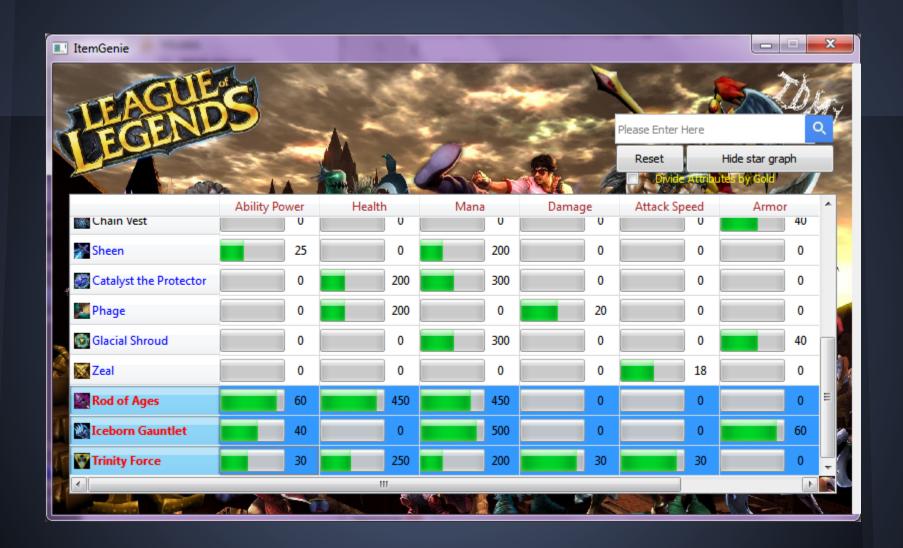
What it does

Sorts items according to how much bonus they give in each attribute

GUI design

Selection of items and attributes for graphical comparison





Bar graph comparison

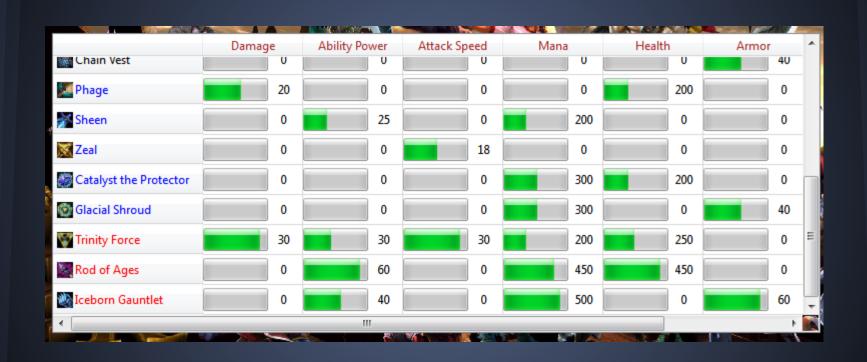


Star-graph comparison

Priority sorting

•	Ability Power	Attack Speed	Mana	Health	Armor	Damage
Blasting Wand	40	0	0	0	0	0
Manual Amplifying Tome	20	0	0	0	0	0
Nragger Dragger	0	12	0	0	0	0
Brawler's Gloves	0	5	0	0	0	0
Sapphire Crystal	0	0	200	0	0	0
	0	0	0	150	0	0
Chain Vest	0	0	0	0	40	0
Long Sword	0	0	0	0	0	10

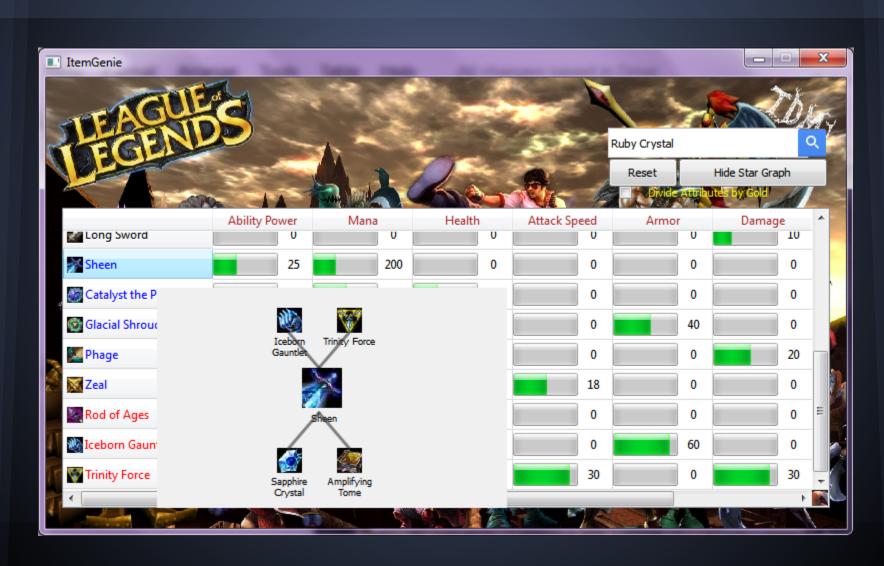
Grouping by tier and comparing within the tier



Searching to select items and attributes



Item build: build to and built from



User in control

Allowing users to select items and attributes for comparison

See-and-point

Selection of items and attributes with a click

Dynamic updating

Star graph is updated automatically when items are selected

Metaphors

Item build represents the pyramid build of items

Colour coding

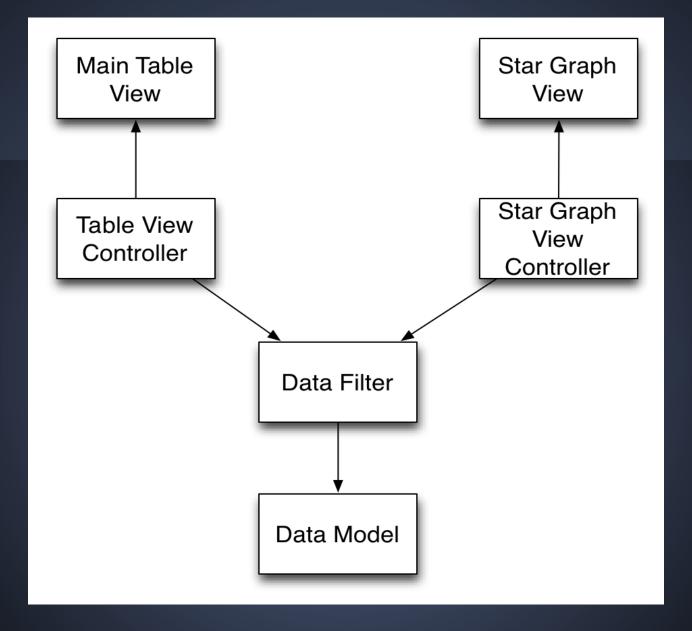
Different colours to represent different tiers and items

Usability

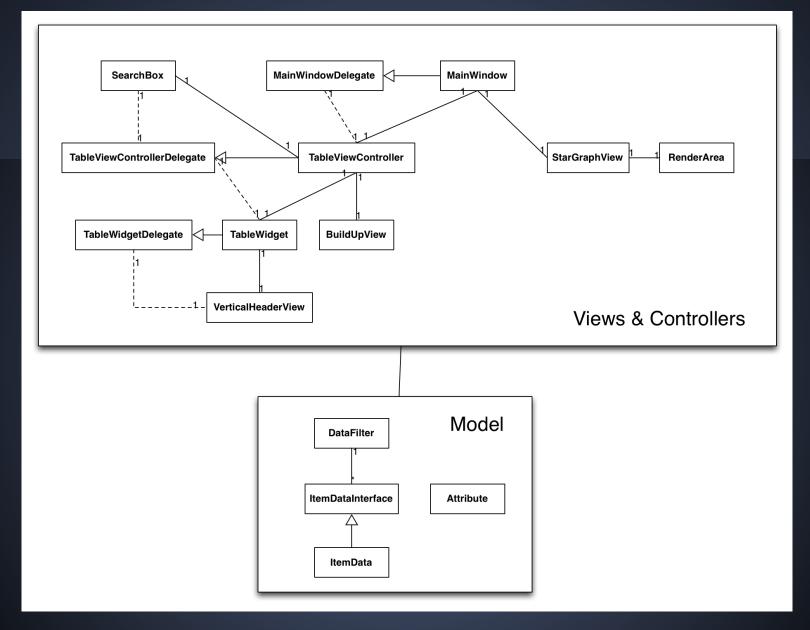
Search box automatically on focus when program starts

Mouse-over shows item attributes and build

System Architecture

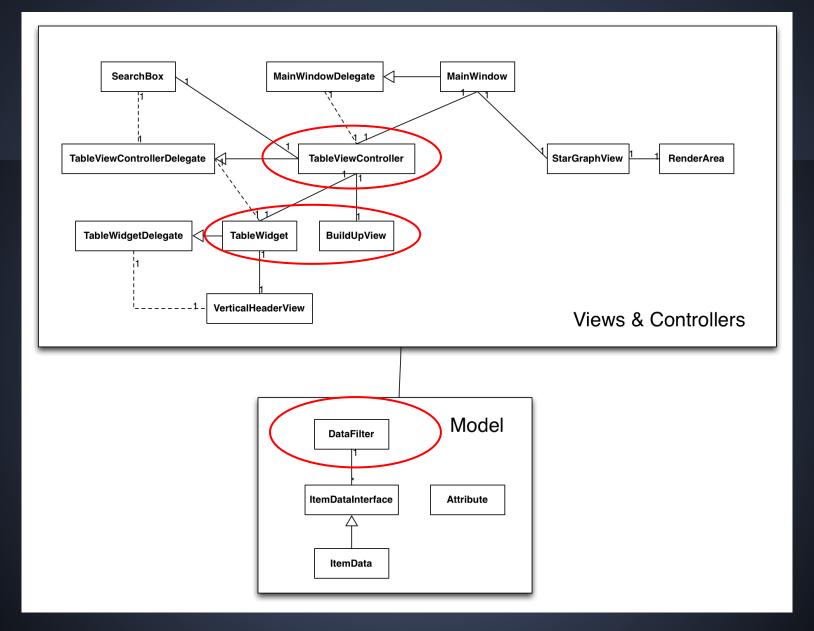


Architecture Diagram (Logically)

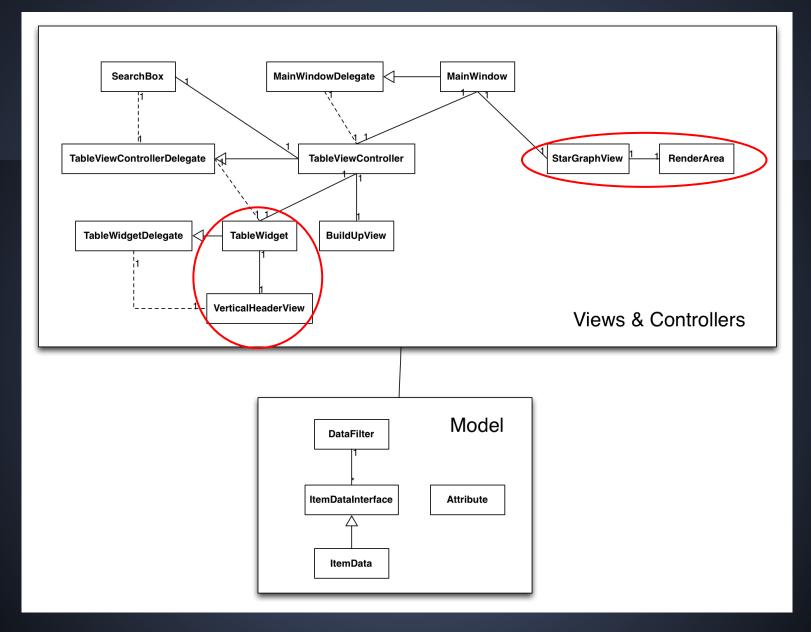


Architecture Diagram (Detailed)

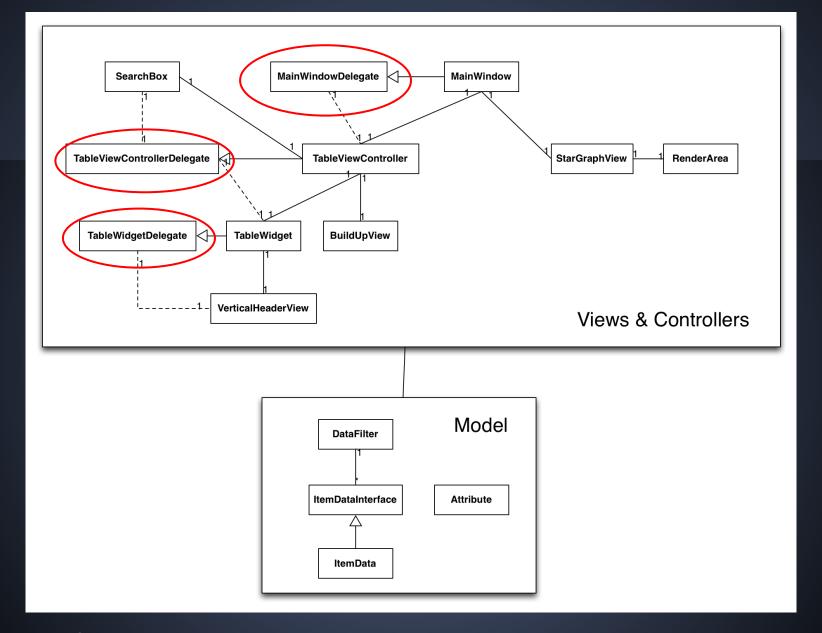
Design Pattern



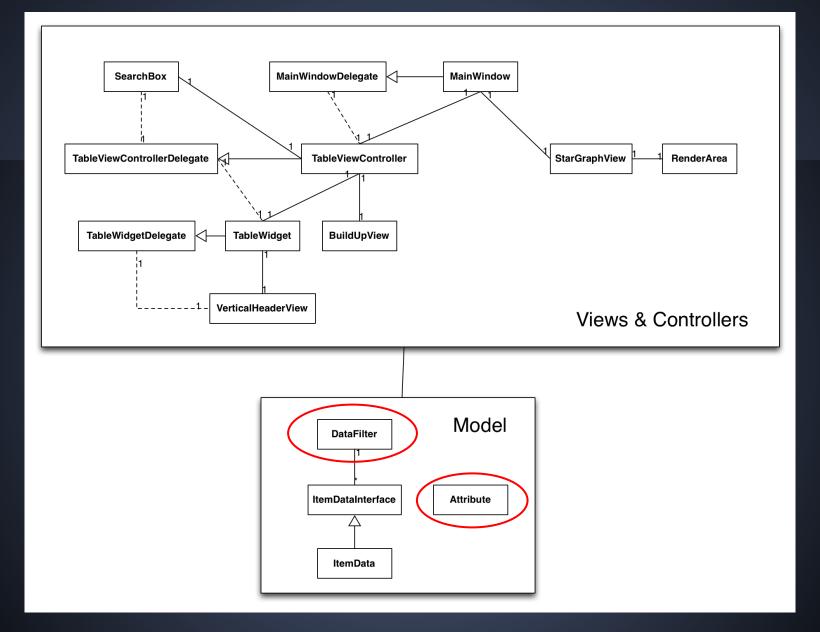
Model View Controller



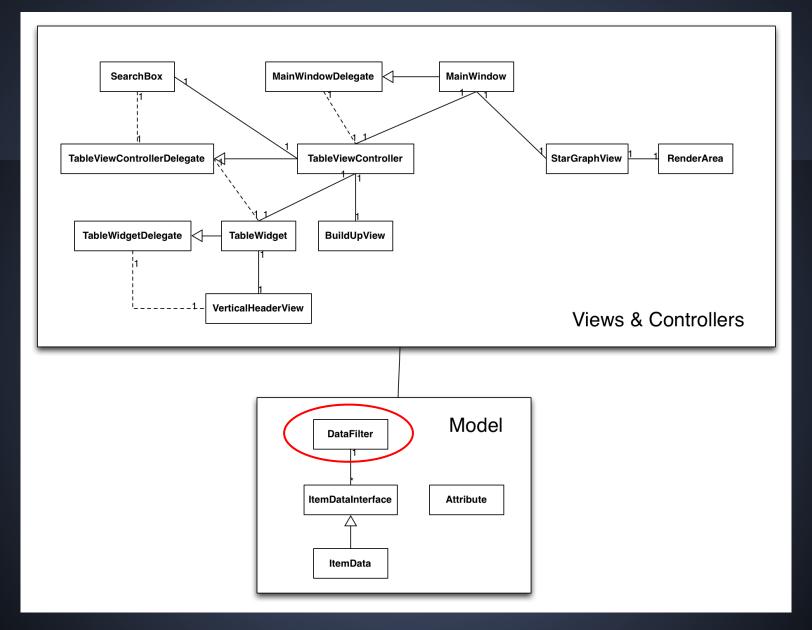
Separation of Concern



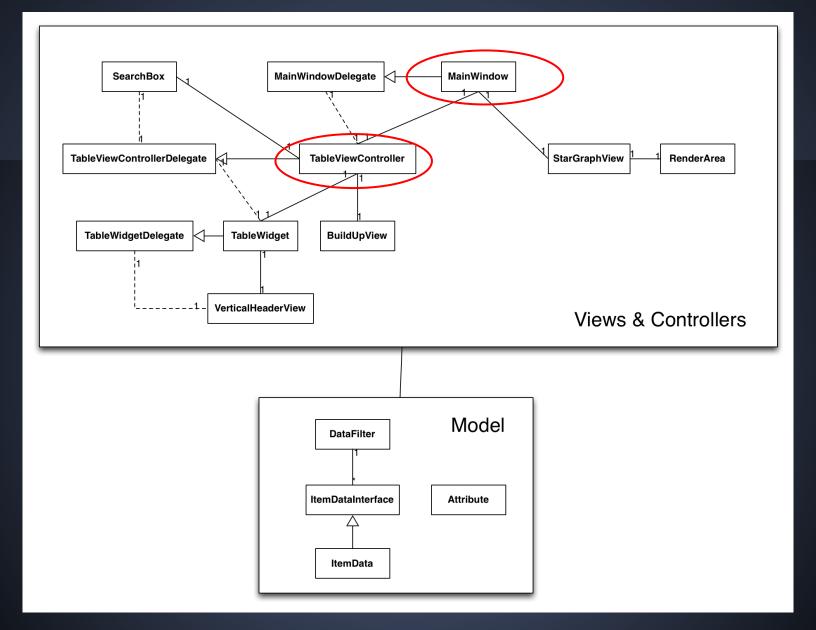
Delegate



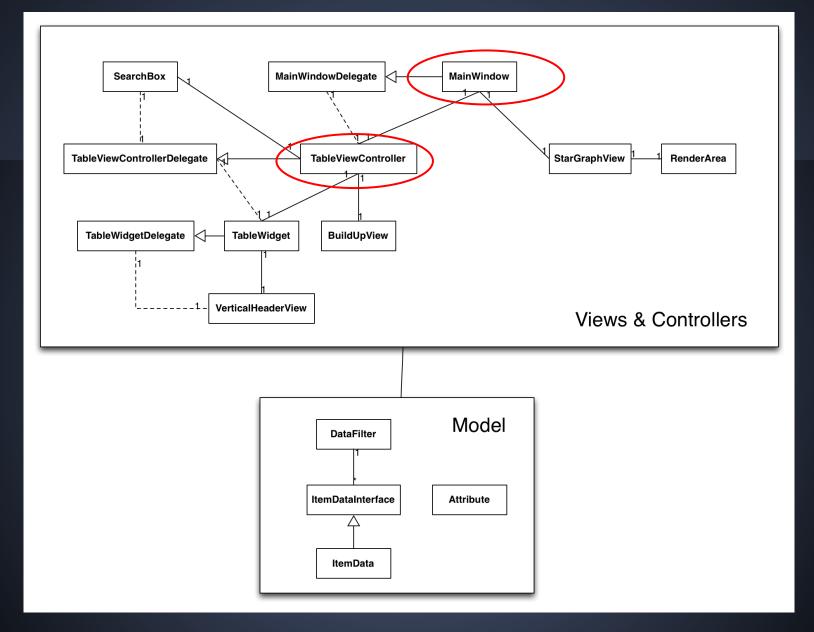
Singleton



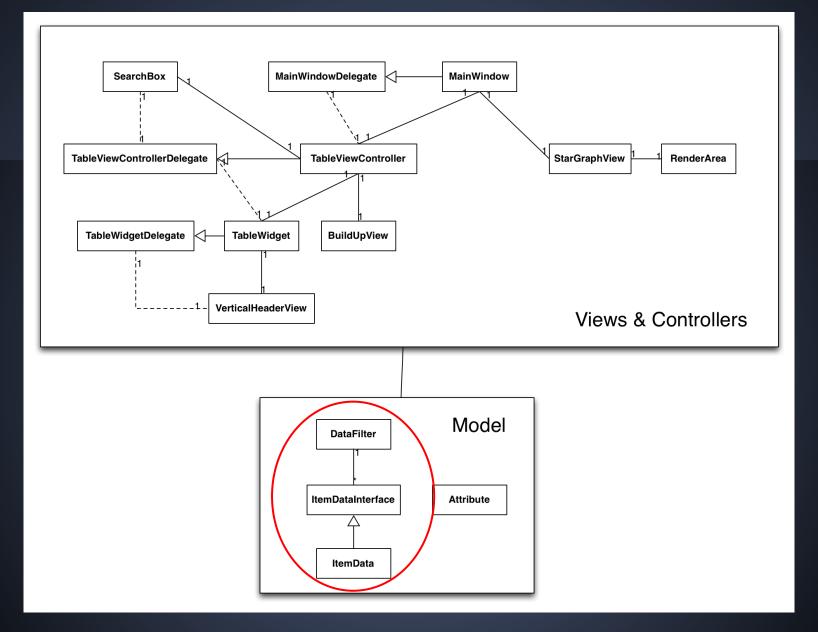
Facade



Observer

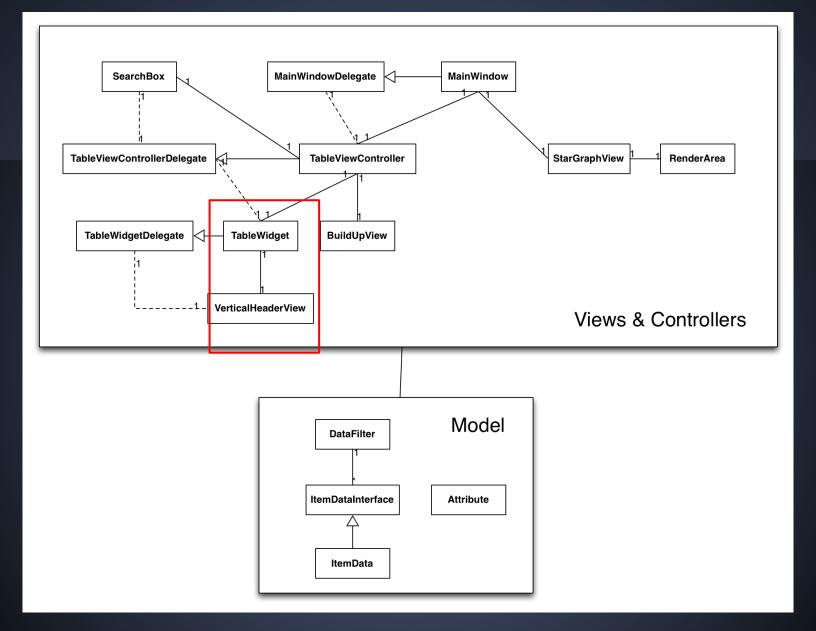


Chain of Responsibility

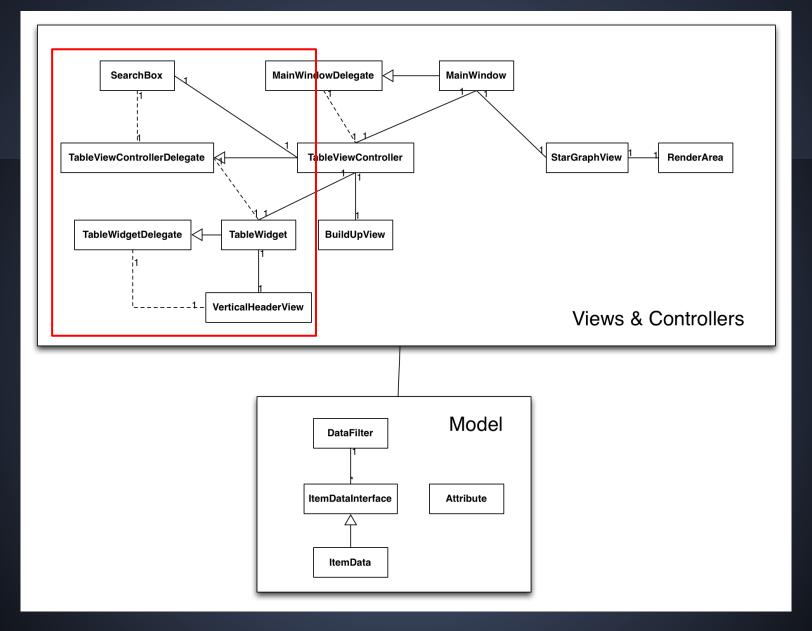


Factory

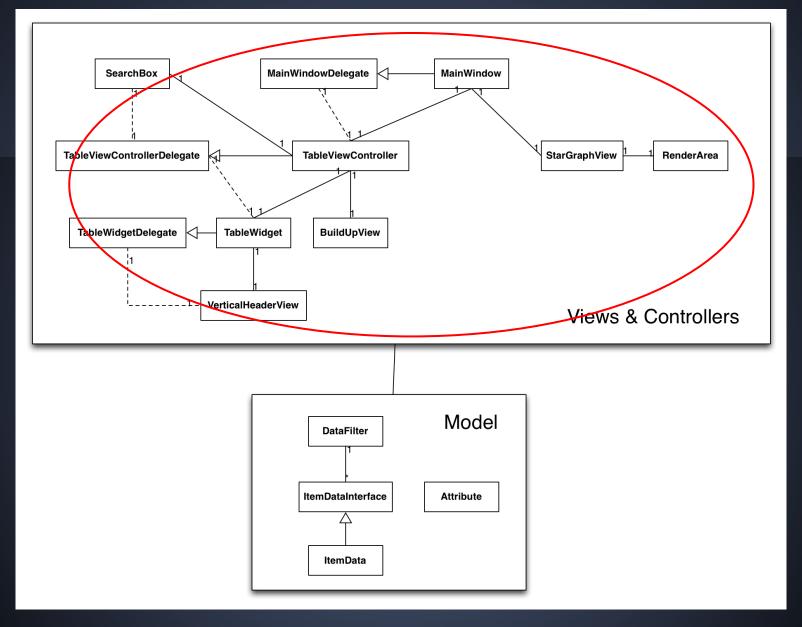
Implementation Issues



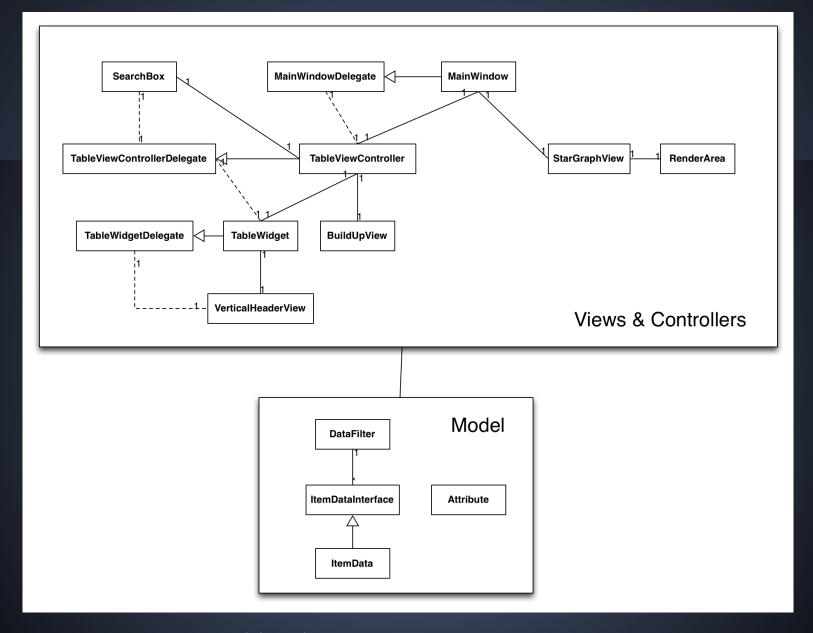
Mouse over



Frequently Updating Table



Too much overhead



Cannot pull data from server

Q&A