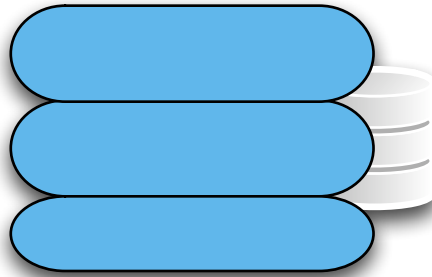
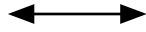
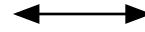




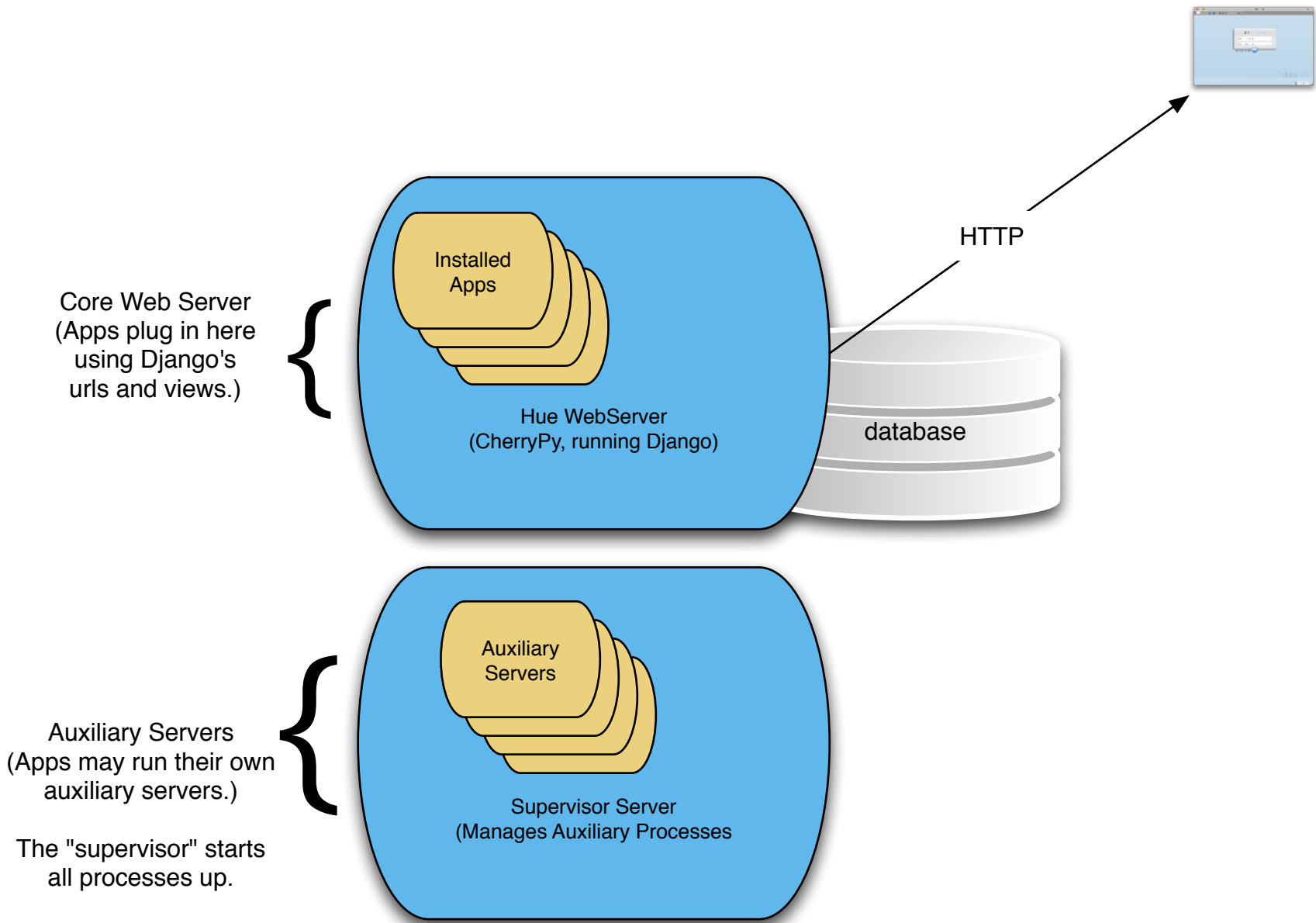
Hadoop



Web Server



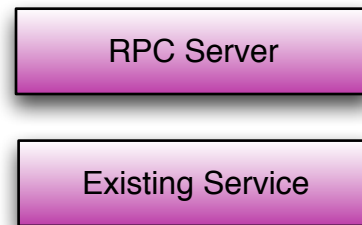
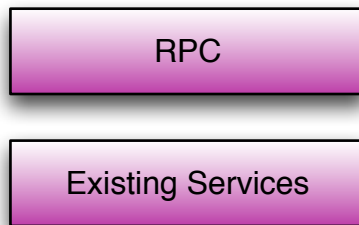
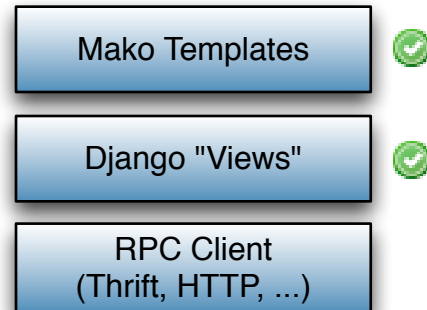
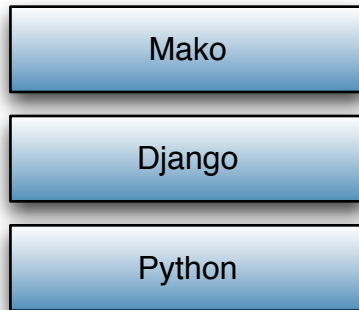
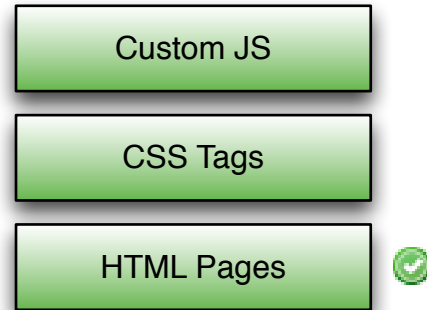
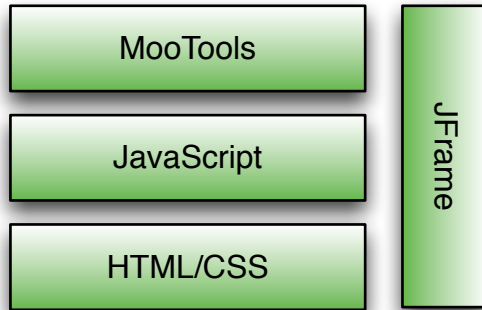
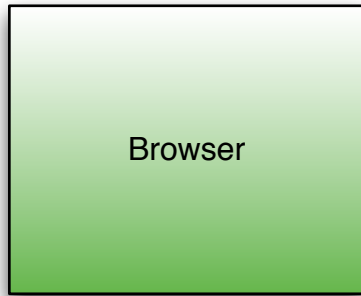
Browser



Tier

Technology

Application



 Required

For Example

Application

Help

Hive UI

pretty minimal

more advanced

Custom JS

CSS Tags

HTML Pages

Icon

Self-Resizing Textarea;
Create Table Wizard

Mouseovers;
Toolbar Management

Styling

Mako Templates

1 Base Template

1 Template per
"Screen"

Django "Views"

Renders Markdown
Files to HTML

Saving and Restoring
Queries

RPC Client
(Thrift, HTTP, ...)

RPC to Beeswax
Server; Hive Metastore

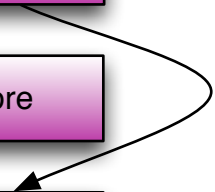
RPC Server

Beeswax Server

Existing Service

Hive Metastore

Hadoop MapReduce





Desktop Web Stack

jobsubd

Communication

bin/hadoop	Thrift	HTTP
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NameNode
Desktop NN Plugin

JobTracker
Desktop JT Plugin

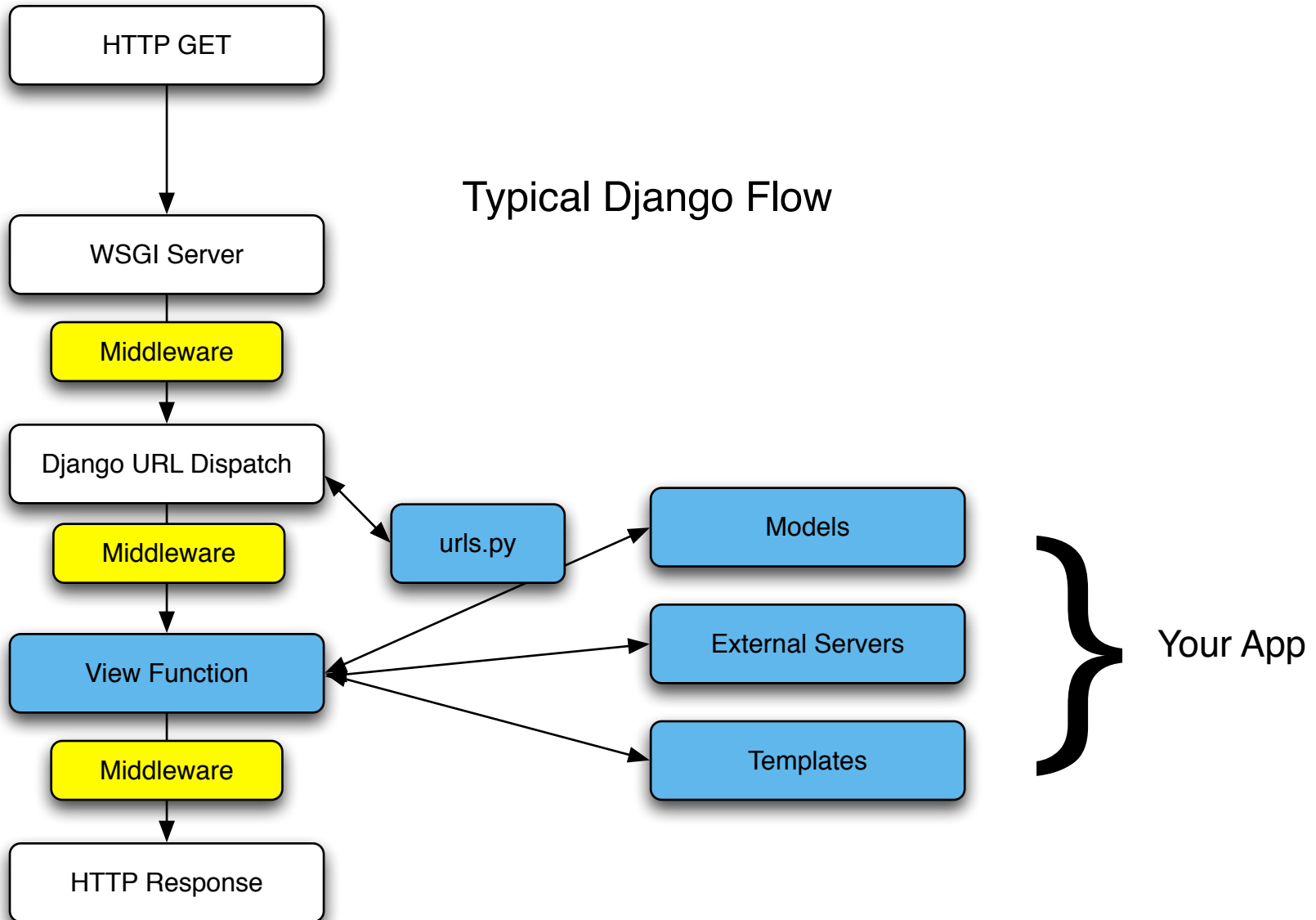
DataNode
Desktop DN Plugin

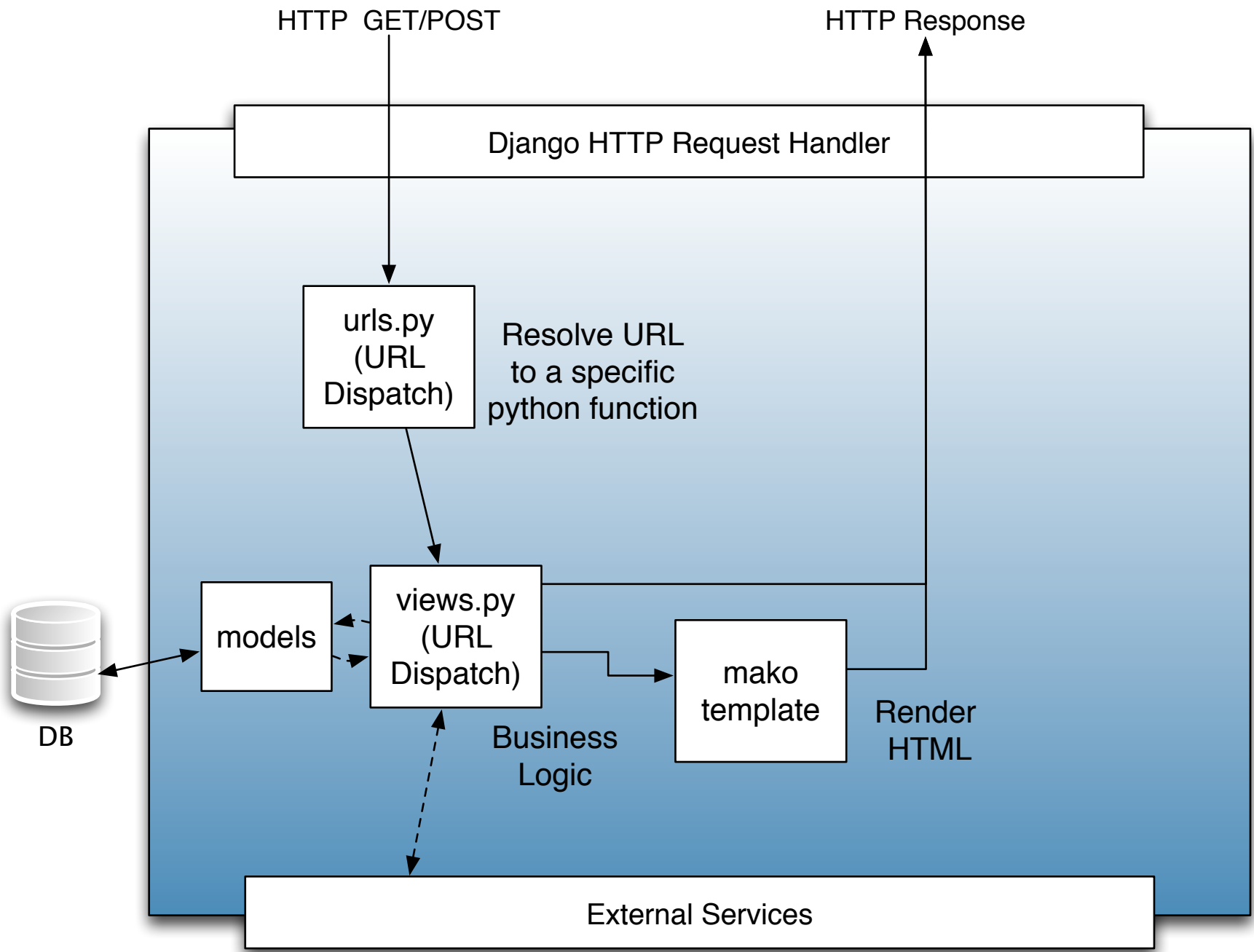
TaskTracker



This instance of Hue is running 2 applications, with one "JFrame" each.
The corresponding underlying requests are labelled.

Typical Django Flow





HTTP GET/POST

HTTP Response

Django HTTP Request Handler

urls.py
(URL
Dispatch)

Resolve URL
to a specific
python function

models

views.py
(URL
Dispatch)

mako
template

Render
HTML

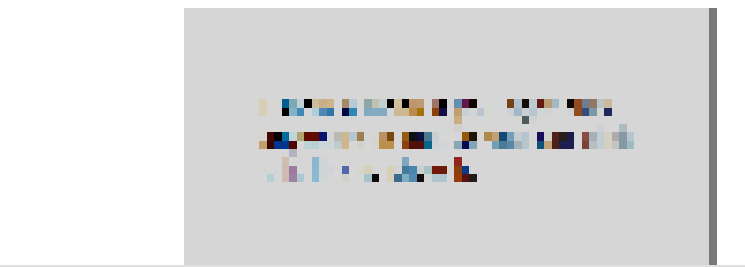
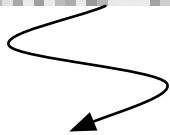
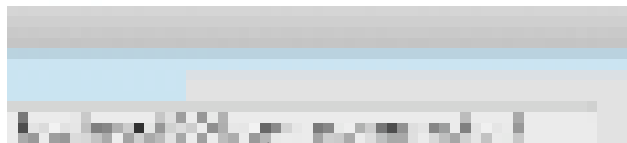
DB

Business
Logic

External Services



Link is Clicked



JFrame is Updated



Default Linker



XHR Request



Server Response



Default Renderer



Filters

