

Peregrine Project

Plans of Attack

Devon Gleeson, Kyle Paulsen, Nicholas Benson,
Anh Nguyen, Chinh T Cao, Weixiong Lu

Project Overview

Project Summary

- We are building an n-tiered application logger that fits into a Service Oriented Architecture.

Team Breakdown

- 3 sub teams: **User Interface** (Anh and Chinh), **Service API** (Devon and Kyle), **Persistence** (Wilson and Nick)

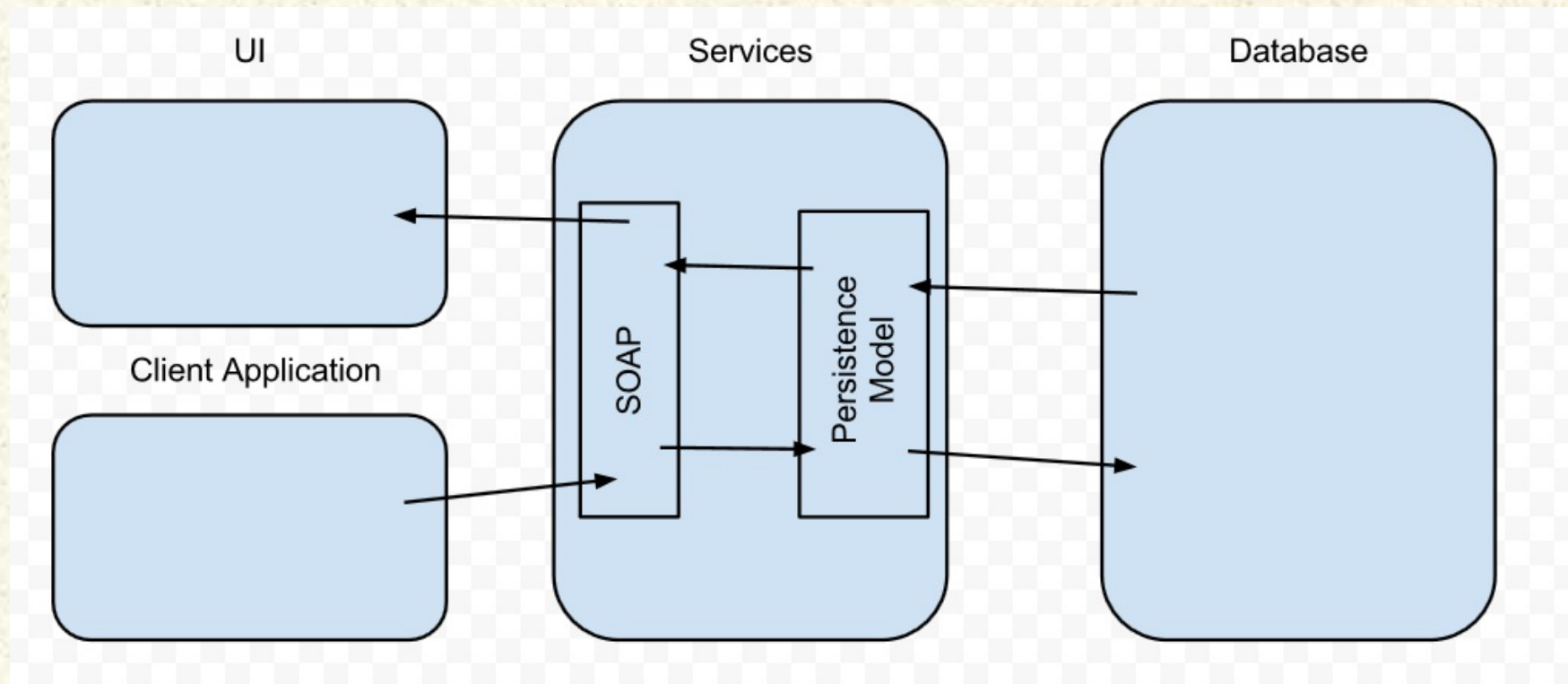
Tools

- Jira and Greenhopper: Project Planning/Tracking, Bug Repo
- ReviewBoard: Remote code review
- Jenkins: Continuous Integration
- Github: Source code management.

Project Plan

- We'd like to thank our sponsor Joe Capell from A-DEC
- Use SCRUM to track our progress throughout the project.
- Two week sprints.
- Enter code complete two weeks before the end of the next term.
- Basic acceptance criteria
 - Documentation
 - QA'd by another team member
 - Code reviewed by at least 2 other people.

Project Architecture



- Building a WCF Service Layer that accepts log messages from client applications.
- The UI will use the service to communicate with the database.
- Having a well defined service layer allows for clean separation of concerns.

There are two alternative ways to build SQL database with C# on Visual studio. With following pros and cons considerations on both of alternatives, we make an architecture decision to implement database in linq to SQL library,

1. Use linq to SQL

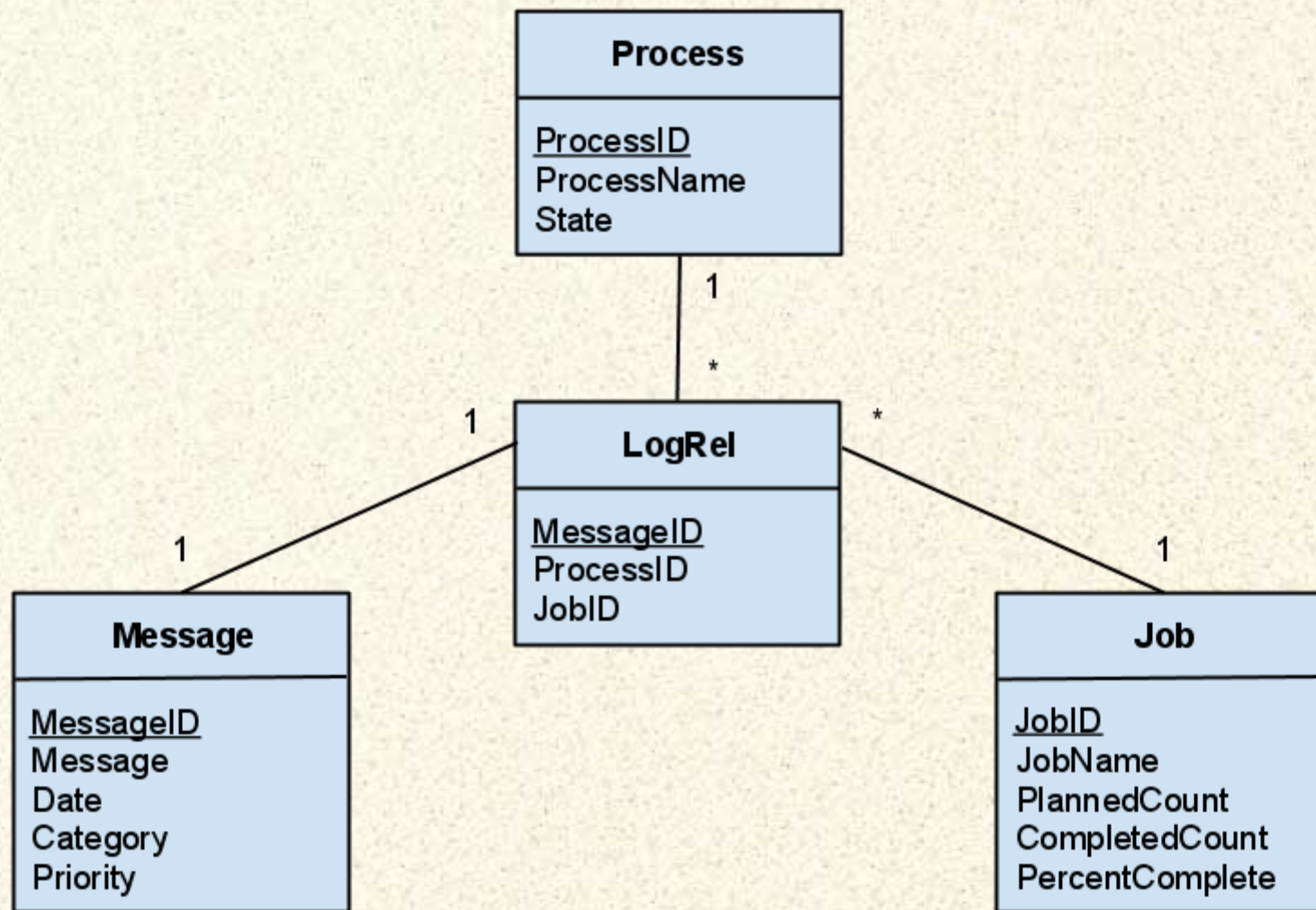
- Pros: Can develop application in short time
- Cons: Not as flexible as Entity frame work

2. Use Entity frame work

- Pros: Flexible and scalable/Can handle data base other than SQL
- Cons: Take more effort to build

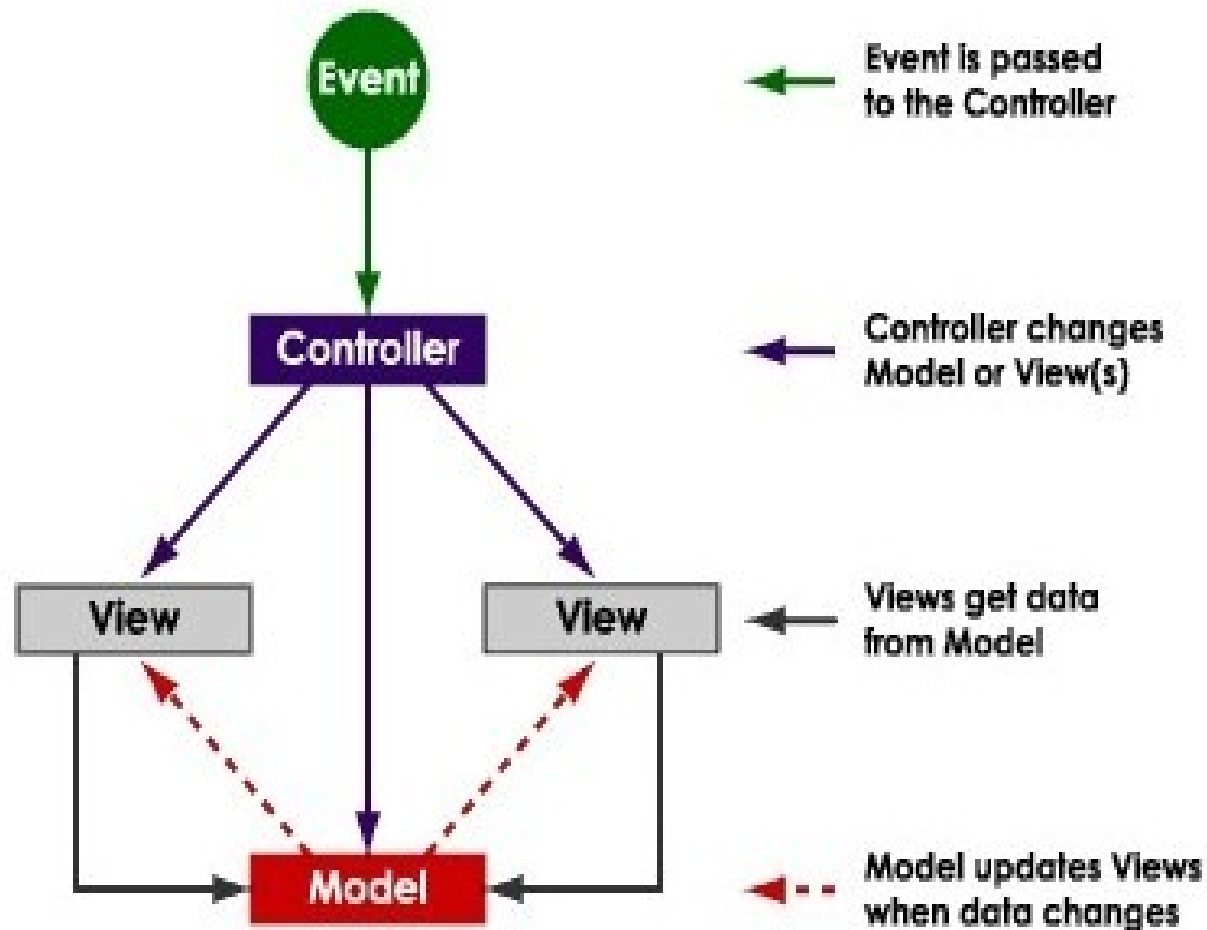
<http://maxivak.com/entity-framework-vs-linq-to-sql/>

Database Schema

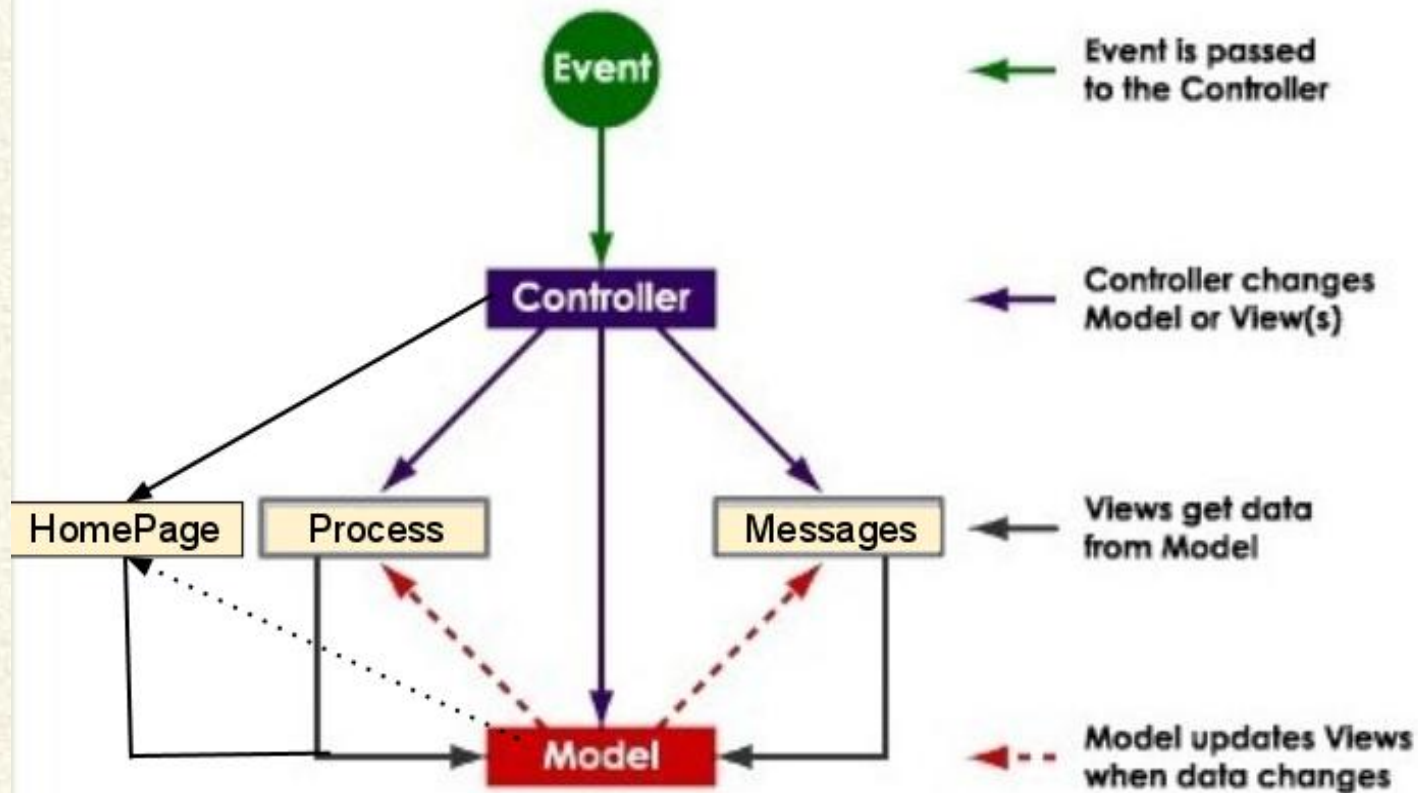


Category: *General, Priority, Error, CriticalError, Information, JobStart, JobProgress, JobPercent, JobComplete, ProcessStartup, ProcessShutdown, ProcessState, etc...*

The MVC abstraction can be graphically represented as follows.



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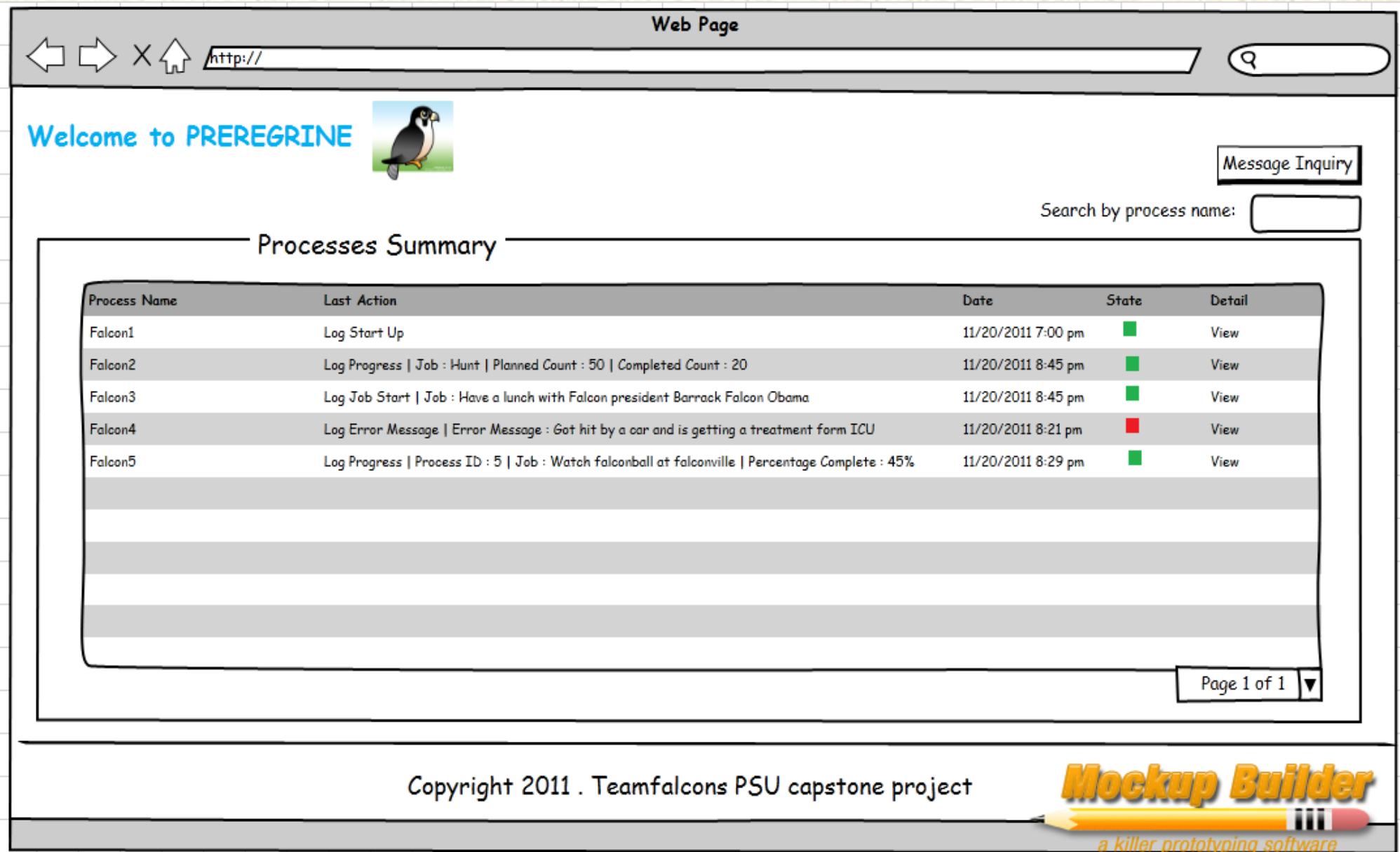


UI mockup and prototype

Used technology:


1. Asp.net mvc3
2. AJAX
3. jquery plugins "datatables"
4. HTML5

UI mockup main page



UI mockup individual process page


Web Page



http://

Q

PREREGRINE _ Process



Process Name : Falcon3

Process ID: 3

Process State : ■

General Messages:

Message Detail	Date	Priorit	Type
Have a lunch with Falcon president Barrack Falcon...	11/20/2011 8:45pm	4	General
I am terrific			
Done with falcon java programming			
I am born			

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Total number of jobs: 3

Total number of progressing jobs: 3

Total number of finished jobs: 0

Process's jobs detail:

Job Name	Job Date	Planned Count	Completed Count	Progressing
	2011 6:00 pm	50	10	20 %
	2011 6:00 pm	50	20	40 %
	2011 6:00 pm	50	30	60 %


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Process : Falcon3 | ProcessID : 3 | Message

Have a lunch with Falcon president Barrack Falcon Obama


UI mockup message inquiry page

Web Page





PEREGRINE _ Message Inquiry



Get startup and shutdown messages

Get messages of process name :

Get messages of the priority :

Result

Process ID	Process Name	Message	Priority	Date
3	Falcon3	Have a lunch with Falcon president Barrack Falcon...	4	11/20/2011 8:45pm
3	Falcon3	I am terrific	n/a	11/20/2011 7:45pm
3	Falcon3	Done with falcon java programming	2	11/20/2011 7:50pm
3	Falcon3	I am born	4	11/20/2011 7:00 pm

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Mockup Builder

a killer prototyping software

UI prototype of main page

<http://ntanh1989.com/Views/Home/>