Project Flux

Connecting the Eclipse IDE to the cloud-based Era of Developer Tooling

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Why can Google search the internet in 100ms, but my Eclipse IDE takes 5 seconds to open a type hierarchy?
the answer:

cloud-based developer tooling
We are already close

Google, issue tracker, CI build system, GitHub, Mail, Hangout, Help, Stackoverflow, etc.

But coding?
```java
package org.eclipse.flight.core;

import java.io.ByteArrayInputStream;

/**
 * @author Martin Lippert
 */
public class Repository {
    private String username;
    private IMessagingConnector messagingConnector;

    private ConcurrentHashMap<String, ConnectedProject> syncedProjects;
    private Collection<IRepositoryListener> repositoryListeners;

    private static int GET_PROJECT_CALLBACK = "Repository - getProjectCallback".hashCode();
    private static int GET_RESOURCE_CALLBACK = "Repository - getResourceCallback".hashCode();

    public Repository(IMessagingConnector messagingConnector, String user) {
        this.username = user;
        this.messagingConnector = messagingConnector;

        this.syncedProjects = new ConcurrentHashMap<String, ConnectedProject>;
        this.repositoryListeners = new ConcurrentLinkedDeque<>;

        this.messagingConnector.addConnectionListener(new IConnectionListener());
    }
}
```
Challenge 1

We don’t know yet how cloud-based developer tooling should look
And the other tools?

What about all the other tools that I love to use on my machine?
Challenge 2

jumping over into the cloud and leaving everything else behind doesn’t work today
Implementation

Let's start from scratch and re-implement full blown language tooling in JavaScript!
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Challenge 3
re-use the good parts
Project Flux

connecting the desktop IDE to the cloud-based era of developer tooling
Demo
Demo

https://www.youtube.com/watch?v=kkoplIlMJfHw

(in the screencast the project is called Flight, which was an early prototype name for it)
The backbone: Asynchronous Messaging
All sorts of micro services
Project Flux

@ Eclipse

Project Leads:
John Arthorne (IBM)
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Wanna join? Let us know!
Thanks

Disclaimer:
It is NOT ready-to-ship code yet
and the project is at the beginning

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