

# Apex Code

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# Webinar Attendees see 2 components:

## 1. Viewer Window

## 2. Control Panel

The screenshot shows a GoToWebinar Viewer window. The main content area displays a slide with the following text:

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*We will begin at approximately 10:05 PST*

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Logos for Citrix, salesforce.com (Success On Demand), and a large red 'AWARE' watermark are visible at the bottom of the slide.

The control panel on the right includes:

- File View Tools Help menu
- My Details section with a Satisfaction Level dropdown menu showing options: Great (checked), Fair, and Poor.
- Question and Answer Log section with the text: "Welcome to the GoToWebinar Sneak Peek, please dial into the conference call now."
- A text input field for asking questions: "Enter a question for the staff: Type your question here" with a Send button.

The Windows taskbar at the bottom shows the start button, system tray icons, and the date/time: 10:40 AM Tuesday 7/11/2006.



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# Agenda

- Batch Apex
- Custom Settings
- Apex Scheduler (Pilot)
- Roadmap
- Q&A

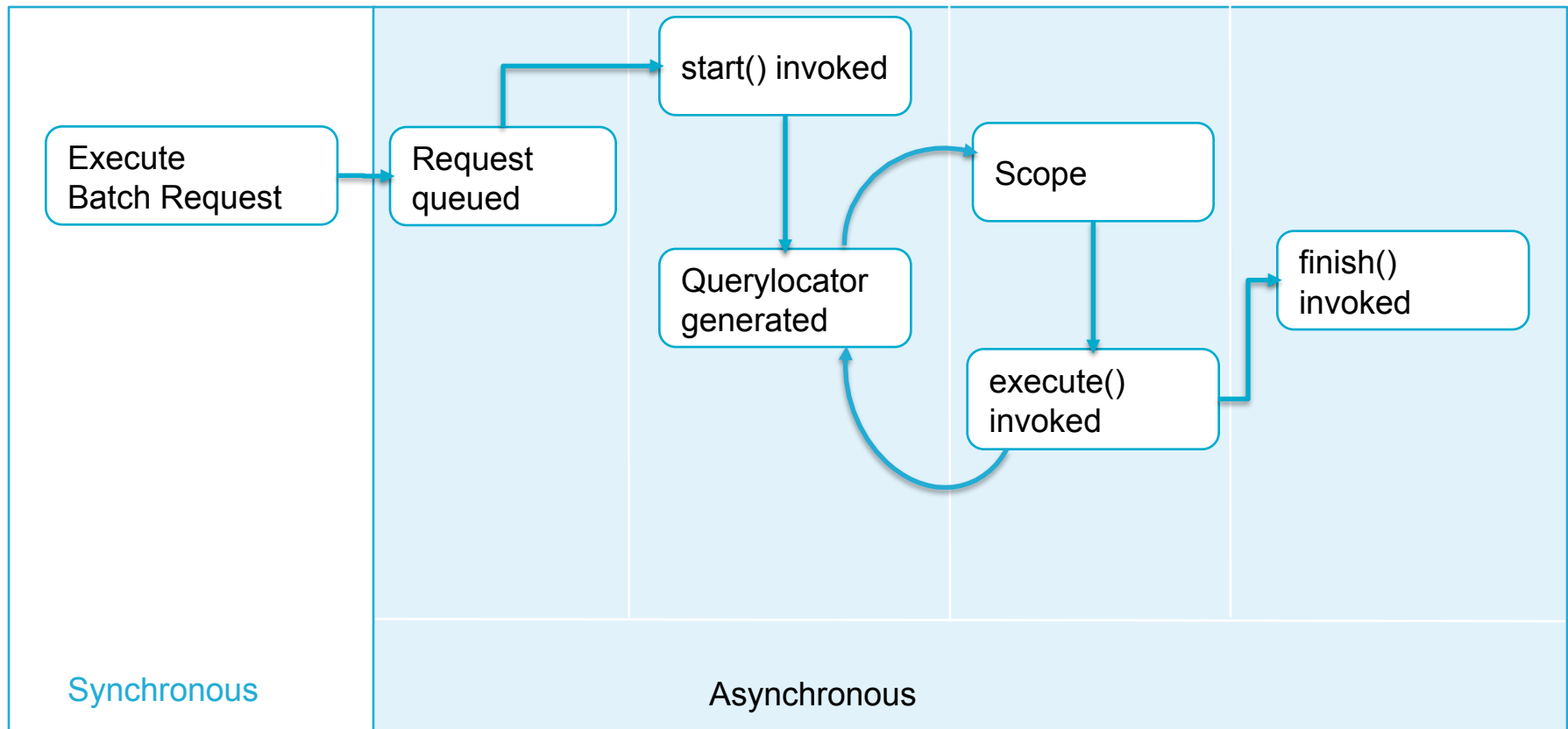


# Batch Apex: introduction

- Platform for complex, long running operations
  - Search and replace, owner reassignment
  - Data validation (3<sup>rd</sup> party data cleansing)
  - Complex reporting
- Asynchronous processing
  - Leverages the queuing infrastructure
  - Scope is logically divided into smaller executions
- Does not bypass governor limits
  - Start, Execute, and Finish all respect limits
  - The key is the querylocator...



# Batch Apex: how it works



# Batch Apex: Demo

- [demo](#)



# Batch Apex: best practices

- Pay close attention to batch execution
  - Visualforce, webServices, Email Services
  - Watch out for trigger invocations
- Executes are autonomous requests
  - Failures within Batch executes do not rollback the entire Batch process
- Use the Stateful interface when aggregating data across executes
- Test, Test, Test



# Custom Settings: introduction

- **Create application metadata** at the Org, Profile, and User Level
- **Build Org-level lists** and employ these within Apex Code and Visualforce
- **Deploy Personalization logic** by developing Custom Settings that can be defaulted and overridden at the Org, Profile, and User levels.

## *Advanced Personalization*

### Visualforce



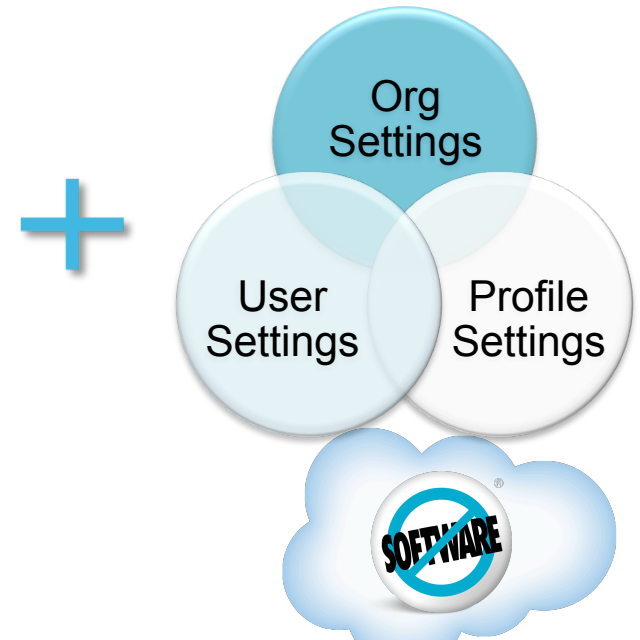
### Apex

```
public List<SelectOption>
getItem() {

List<SelectOption> options =
new

List<SelectOption>();
for (m:mycs__c.getAny()) {
options.add(new
SelectOption
(m.name,m.value));
}
return options;
}
}
```

### Custom Settings



# Custom Settings: unleash the power...

- Custom Settings are cached
  - Efficient access
  - No need for repetitive DB queries
- Simplified API
  - Hierarchy abstraction
  - List retrieval
- Obfuscation support
  - Access protection for managed packages
  - Supports subscriber “lockout”



# Custom Settings: Demo

- [demo](#)



# Apex Scheduler

- **Schedule Apex execution**
  - select a class, select a schedule
- **Generate dynamic scheduling**
  - leverage the scheduling API to build complex schedules
- **Deploy multiple schedules**
  - run up to 10 concurrent apex schedules



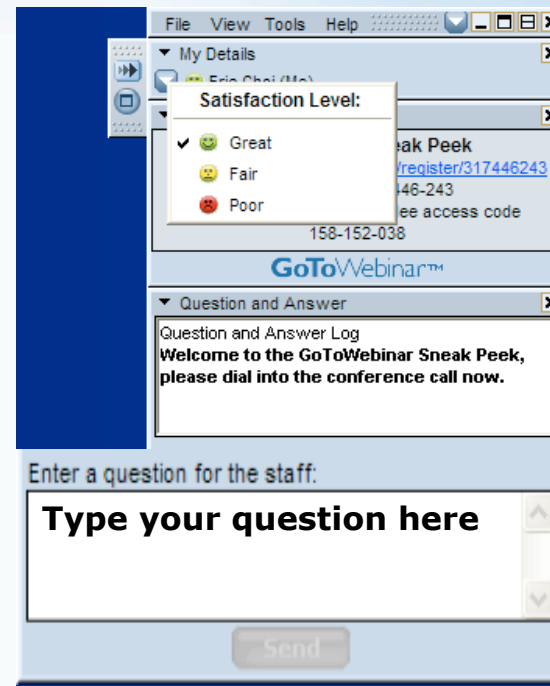
# Roadmap

- Apex monitoring and debugging framework
  - Replace the system log
  - Expose log filtering/profiling
- Enhanced test framework
  - Separate test from application data
  - Provide improved setup and tear-down utilities
  - Guarantee test portability
- Simplify the Limits
  - Focus on core resources



# Questions

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**Thank You**

