# Building modular applications with Plugins

GR8Conf US 2012

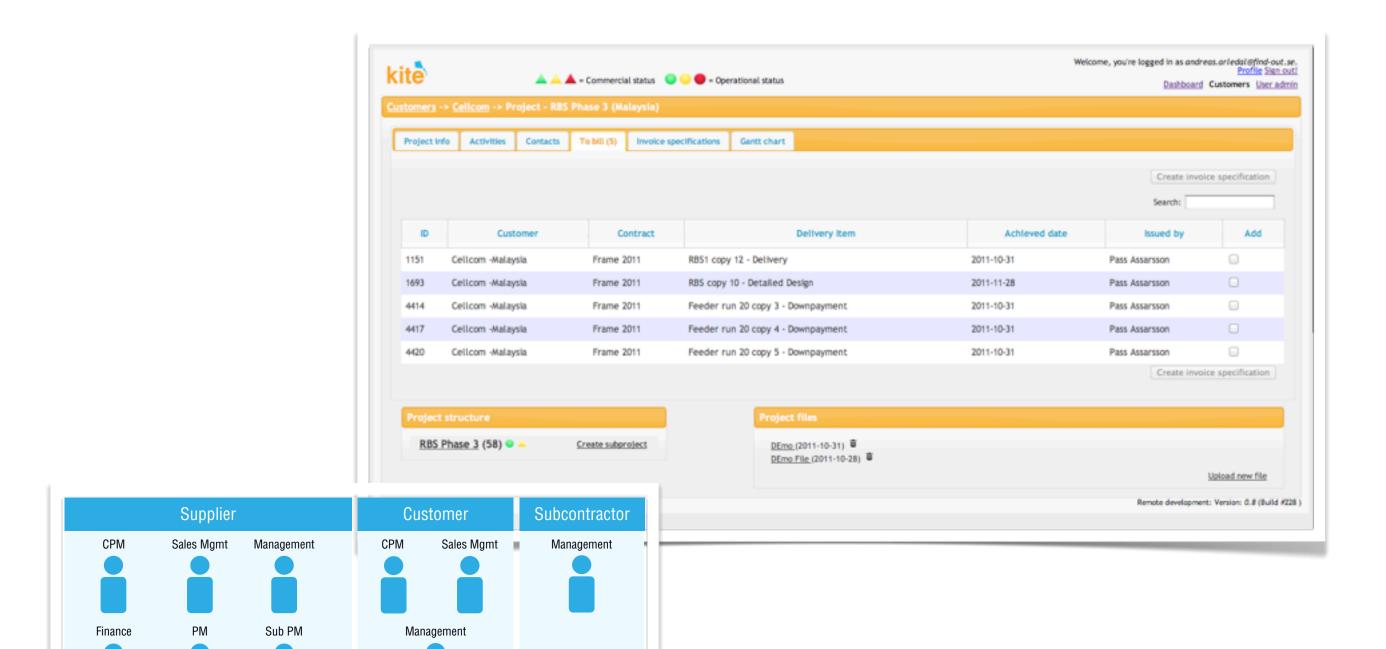
**Andreas Arledal** 



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// Feed your brain
gr8.technologies.each{
yourBrain << it
}
```

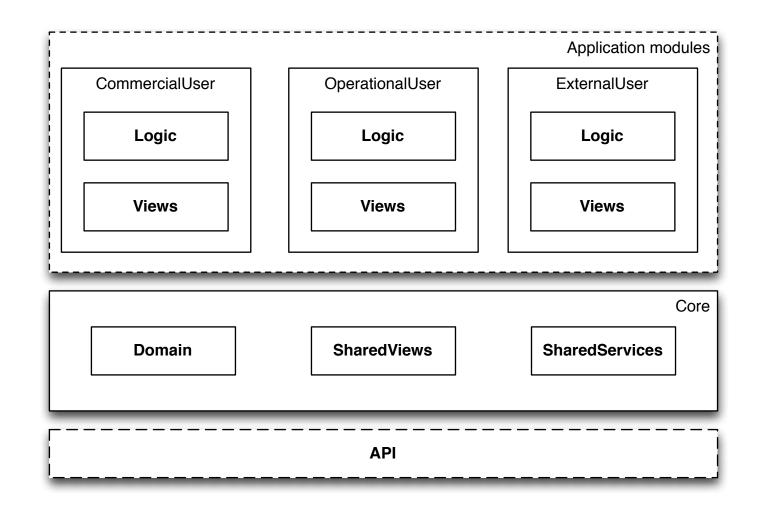
#### Me

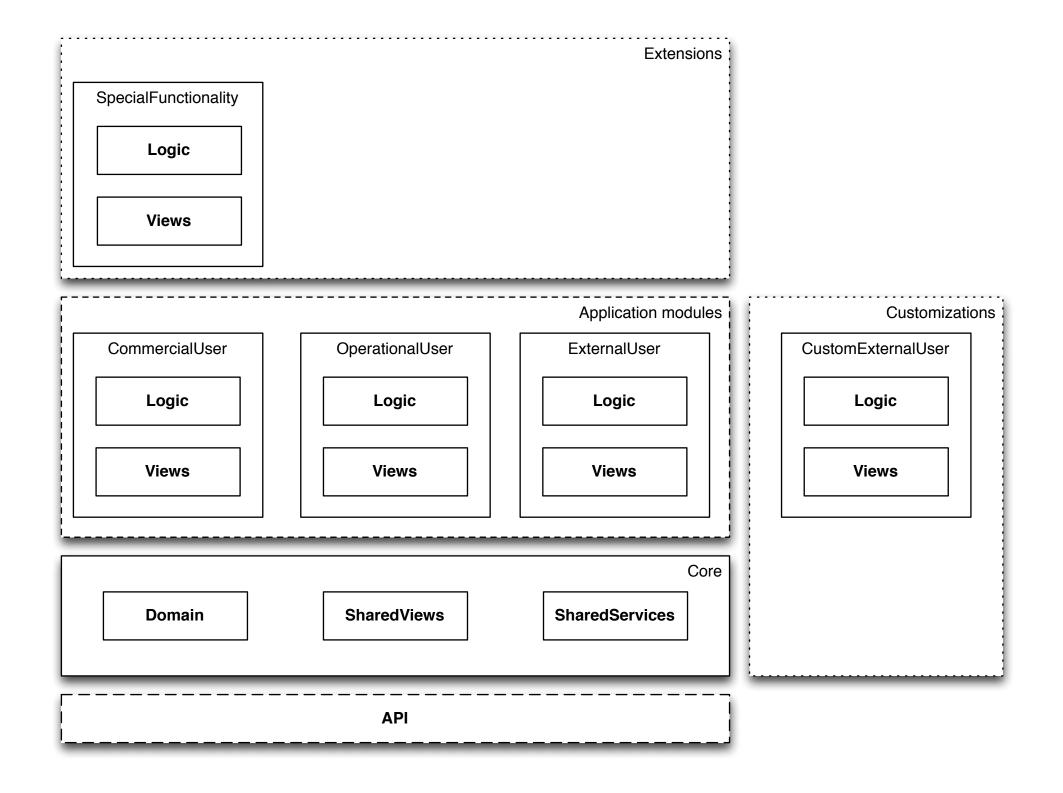
- CTO at FindOut Technologies Sweden
- Groovy and Grails since 2008
- Non Java background
- @AndreasArledal

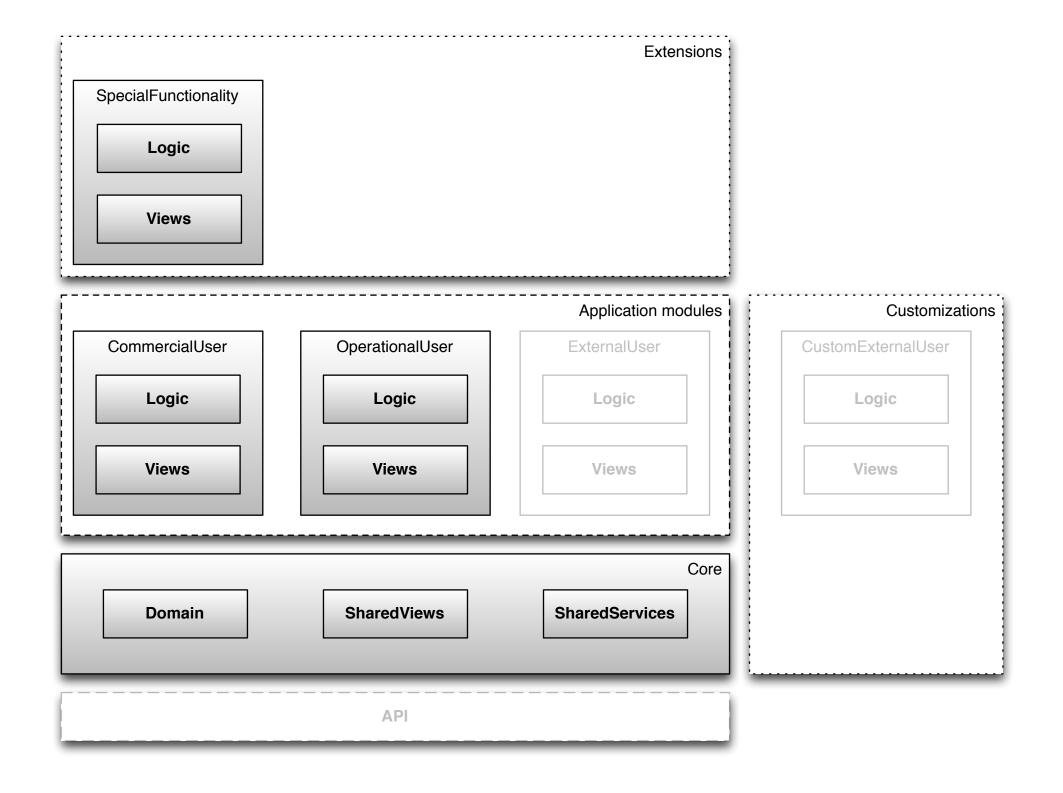


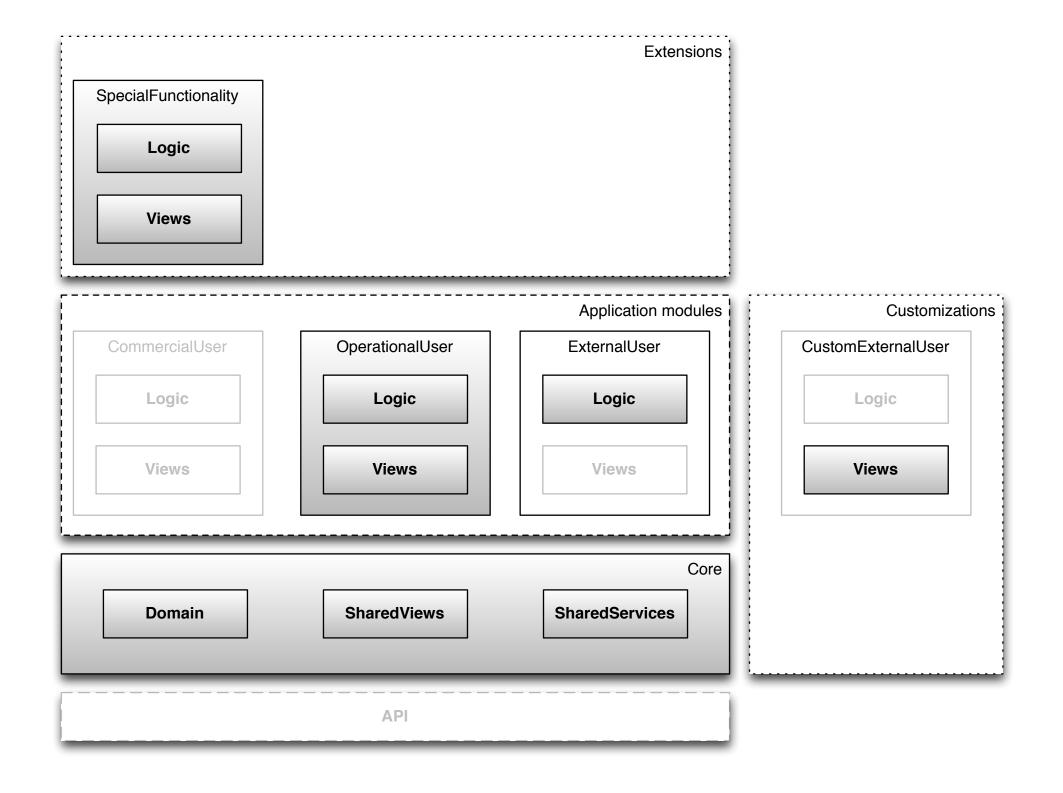
### Challenge

- Customers has varying needs
- Customers has different kind of users
- Avoid maintaining different branches
- Enable flexible business model









## Plugins

- grails create-plugin
- Basically same structure as an application
- Can depend on other plugins
- Are runnable on their own
- Testable

# Developing

- Inline plugins in dev
- Shared structure
- Code reviews

### Strategies for reuse

- Subclassing of controllers
- Shared templates
- Fields plugin
- Navigation plugin

#### Testing

- Focus on Unit tests in the plugin
- Example applications for Integration & Functional testing
- CI For testing
- Manual testing

#### Demo

- Record Store applications
- Shop assistants can manage albums
- Customers can browse albums
- Managers likes to know the value of what's in stock

#### Lessons learned

- Try to keep as much in core as possible
- Inline plugins are deceiving
- Make sure there's still a product
- Don't make everything a new plugin
- Separate the front end app from the back end

# Thank you!

Questions?

@AndreasArledal



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