

Rock Developer Environment



Overview

- What are your goals/objectives?
- They will dictate the approach you might use
- Some tools you may want



What Are Your Goals?

- Just tinkering
- Want to contribute pull requests to core
- Want to build stuff for my organization
 - Simple
 - Sophisticated



Rockit SDK vs the Rock Repo

Two distinct, but related things



Rockit SDK



Rock Github Repo

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Rockit SDK

- The Rockit SDK <u>rockrms.com/Rock/Developer/Rockit</u> is a small VS web project that includes:
 - a custom starter/sample project (in your namespace) which demonstrates custom entities
 - the RockWeb folder with the Rock DLLs for the latest, particular version of Rock

NOTE:

- There is a <u>Rockit Github repo</u> but the Rockit SDK consumes it to build the custom project.
- Source code for the Rock DLLs are not included in the SDK.



Rock Github Repo

- The Rock Github repo github.com/SparkDevNetwork/Rock
 - Includes all the source code except the contribution statement generator code





Just Tinkering

Goal



Have Fun

- But still follow naming conventions and guidelines
 - Write clean code
 - Use proper namespaces
 - Use correct folder names
- Recommend download Rockit SDK
 <u>rockrms.com/Rock/Developer/Rockit</u>





Contribute to Core

Goal



Not quite there

- Bugs only -- not really looking for features this way
- We're not fully ready to process these quickly
- I'll be the traffic cop on these and will probably deal with them on Fridays



So you want to help?

- Fantastic! Be sure...
- You've read our <u>Coding Standards</u>
- You've read our <u>Naming Conventions</u>
- You've read the code
- You like to replicate existing patterns
- You understand the way we think



Don't use Rockit SDK

- Clone the main repo github.com/SparkDevNetwork/Rock.git
- Follow git-flow approach

http://nvie.com/posts/a-successful-git-branching-model/

- Branch off the develop branch
- Branch naming (i.e., feature-*na-featurename)*

Submit Pull Request

- High Level Steps
 - Fork/clone
 - Branch off master
 - Code (& test) one feature/bug at a time
 - Be sure to *Find All References* (shift F12)
 - Commit last... one single descriptive commit
 - Submit Pull Request
- Pull requests are pretty easy from Github
- But SmartGit 5/6 now includes this too





- <u>https://help.github.com/articles/using-pull-requests/#initiating-the-pull-request</u>
- The easiest way of thinking about the branch range is this: the *base branch* is **where** you think changes should be applied, the *head branch* is **what** you would like to be applied.



From SmartGit

- Verify the branch you are requesting the Pull Request from is up to date from upstream/develop
- Go into 'Log' (Query | Log) or ('Log' button)
- Select the branch you are requesting the Pull Request from (you feature branch, for example)
- Click 'Review | Create Pull Request...'
- In the dropdown, select the branch you are sending the Pull Request to (for example, upstream/develop)
- Enter a detailed Title and Description
- Click 'Create'





Simple Production

Goal



Prod Lite

- Start with the Rockit SDK
- Change your web.config encryption keys to match production
- Add your custom stuff locally
 - But still commit to your source control
- Manually deploy your changes to your prod via xcopy, etc.



Prod Lite (cont)

- Update Releases
 - Update your dev environment via Rock Update Suggest using our beta release General Settings > Update Server URL http://update.rockrms.com/F/rock/api/v2/
 - Test & fix your code
 - Commit (perhaps to release-1.y.z branch)

Prod Lite (cont)

- Update Releases (cont)
 - Once beta is released, use Rock Update on prod
 - then deploy your local changes





Production Ready & Structured

Goal



Production Sophisticated

- Start with the Rockit SDK
- Change your web.config encryption keys to match production
- Develop your custom plugins
- Commit to your develop branch
- Never use Rock Update on your prod server
 - Replace Update Server URL with "donotuse"



Production Solid (cont)

- When ready to release to production,
 - Take backup / snapshot of prod
 - Use service like AppVeyor to deploy from your Git repo master branch to production
- Merge changes to your master branch
 - NOTE: Create an App_Data/Run.Migration flag file



WARNING!

And now a little advice



All Rocks Look Alike

Administrator Checklist		Quick Links Rock RMS Website			
This checklist contains items for the administrator to co disappear until new items are available.	8	Q	Name - 🕢 Hello Admin -		
Setup Location Service	Administrator Checklist		Quick Links		
Input Google Maps Key	This checklist contains items for the ad		Q		Name - Hello Admin -
🗆 Update Email Templates		Administrator Checklist			Quick Links
Update System Workflows	Update Your Install Create Your Account	This checklist contains iter	ns for the administrator to complete. Once all items are compl	ete it will	Rock RMS Website
Define Person Attributes		disappear until new items	are available.		External Website
Setup Group Types	Setup Location Service	Setup Location Service		~	Active Internal Users
	Add Organization Address	Add Organization Addre	255	~	There are no logged in users on the Rock RMS site.
Welcome to Rock	Input Google Maps Key	🗌 Input Google Maps Key		~	Active External Users
At this point in time, Rock has only basic functionality. Howe in here, so feel free to kick the tires on that aspect of Rock (s etc.)	Update System Workflows	Update Email Template	S	~	There are no logged in users on the External Website site.
Please call us at 480-924-4946	Welcome to Rock	🔲 Update System Workflo	WS	~	
	Administrators, add your organization's we	elcome m	age	~	
		Define Person Attribute	25	~	
		Setup Group Types		~	



Colorize Your Dev

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Administrator Checklist		Qu	ick Links
		Ro	ck RMS Website
This checklist contains items for the administrator to disappear until new items are available.	complete. Once all items are complete	it will Ext	ernal Website
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Input Google Maps Key		✓ Act	ive External Users
Update Email Templates		✓ US	ere are no logged in ers on the External ebsite site.
Update System Workflows		*	
Update Welcome Message		~	
Define Person Attributes		~	
Setup Group Types		~	

- Either add an HtmlContent block to the site's layouts
- Or some other approach like change style sheet #content-wrapper #page-title { background-color: orange;

(use your own theme)



Tips

A few handy...





• When running in a fresh db, add a comment to tell you what it's for:

```
<connectionStrings>
  <!-- The 0910 is where I'm setting up the new Photo Request Workflow stuff
        that I'll build a migration for later
    -->
    <add name="RockContext" connectionString="Data Source=localhost;Initial
Catalog=Rock2014_0910; User Id=RockUser; ...</pre>
```

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Tell Yourself to Remember

• Run.Migration

<connectionStrings>
 <!-- REMEMBER: Don't forget to App_Data/Run.Migration -->
 <add name="RockContext" connectionString="Data Source=localhost;Initial
 Catalog=Rock2014_0910; User Id=RockUser; ...</pre>



Tools

Extras



SmartGit - free

Rock - [D:\Misc\Rock] - SmartGit/H						- • •
Repository Edit View Remote	Local Branch Query Changes	Tools Window Help			ile مراجع	
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origin (22) - https://github.com/S	Outgoing × Date Message Path			Output × Ø Move to Trash		<u> </u>
Fags (30) Ready				Move to Trash	ccessfully downloaded versio ntGil/Hg needs to be restarted tart SmartGil/Hg Show Chan	now for the changes to take effect.



Sample Data - free

- The AdventureWorks of Rock
- Enable stopwatch setting for some debug info



Smtp4Dev - free

- Portable (no install), lightweight SMTP listener
- So email code can deliver

🗇 smtp4dev 📃 🗖	x
smtp4dev rob@rnwood.co.uk	
Messages Sessions	_
Received Subject To	
Delete All Delete Save Inspect Vie	w
Listening on port 25 Stop Listening Options	



SQL Scripts - free

- Rock\Dev Tools\Sql
 - Enable_LocalhostDevTesting.sql to change certain rock settings to localhost
 - Populate_Plethora_of_Person_wRandomNames.sql



Less Compiler - free

WinLess - add screenshot



End

the

