

Department of Computer Science Institute for System Architecture, Chair for Computer Networks

Application Development for Mobile and Ubiquitous Computing

Seminar Task Second Presentation

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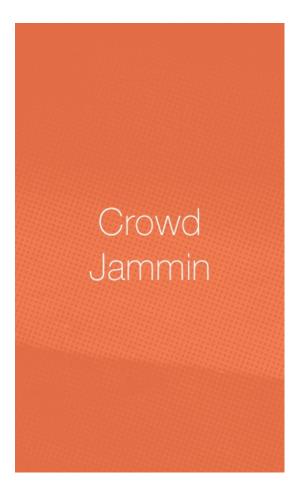
 CrowdJammin is a multi-platform app, for music enthusiasts (both amateur and professional) both with or without a band who are looking for inspiration or other people to arrange or jam to their ideas, or jam to other people ideas.



- Screenshots captured by using Rhosimulator, but it can already run in iOS, Android and WP devices or simulators.
- View/design is set to default (native) for now. We can both adjust it to each O.S. or have a general one.

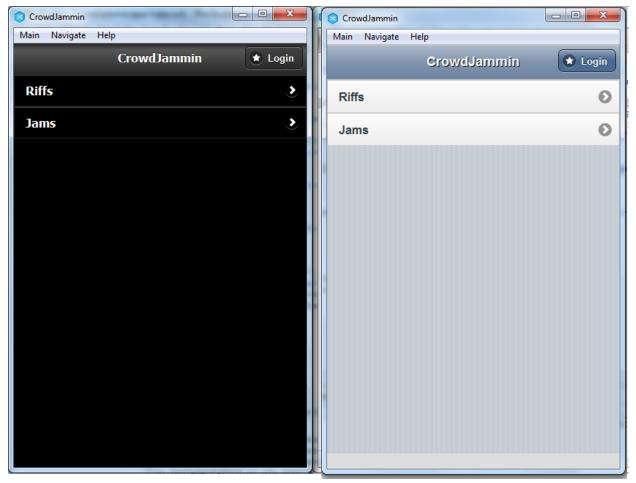


Splash screen





Landing screen / Menu





 Login screen. (Facebook and/or Twitter APIs will be used for easy login as well).

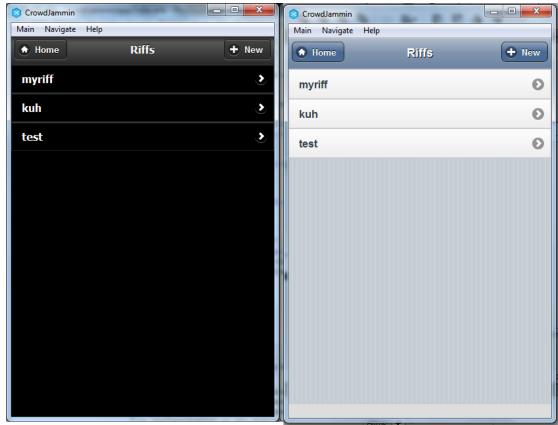
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Main Navigate Help	Main Navigate Help
Seck Login	Back Login
Login	Login Login
Password	Password
	Password
Login	Login



- Riffs are pieces of music uploaded by a single user.
- Jams are various riffs together (when a user joins another).

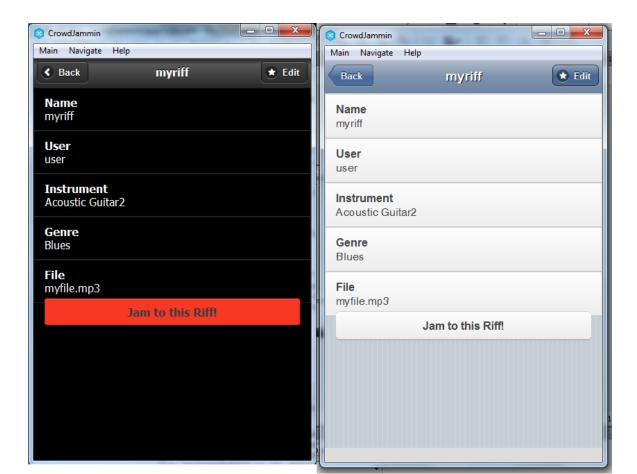


 Riffs Browsing Screen. Here the user will be able to browse and filter riffs according to their properties (genre, instrument, location, etc)





 Riff display. Here the user will be able to listen to the riff and if he likes it, he can join in.





Edit (or delete) own riff.

CrowdJammin	CrowdJammin	- B. B. C.	
Main Navigate Help	- Main Navigate I	Help	
Cancel Edit myriff Selete	Cancel	Edit myriff	X Delete
Name	Name		
myriff	myriff		
User	User		
user	user		
Instrument Acoustic Guitar 오	Instrument	Acoustic Guitar	0
Genre Blues 📀	Genre	Blues	0
File	a Genne	Dittes	
myfile.mp3	File		
	myfile.mp3		
Update			
		Update	
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 Jams browsing. Here the user will be able to browse and filter jams according to their properties.

CrowdJammin			CrowdJammin		
Main Navigate Help			Main Navigate Help		
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jam		১	jam		Ø
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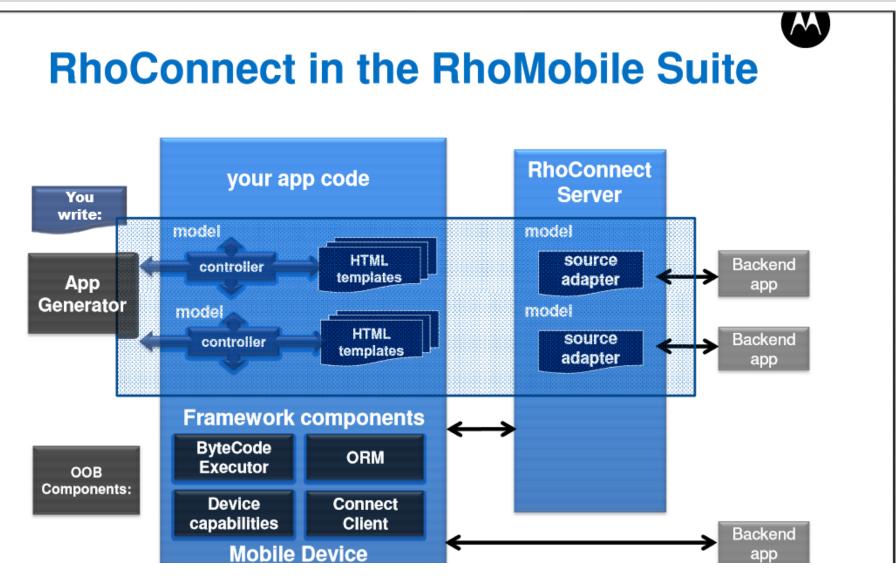
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Jam display

CrowdJammin	CrowdJammin
Main Navigate Help	Main Navigate Help
🔇 Back jam 🗶 Edit	Back jam 🔶 Edit j
Name jam	Name jam
Users 1,2,3	Users 1,2,3
Riffs 1,2,3	Riffs 1,2,3
Genre	Genre
	(/ #UUS: 1 *.)





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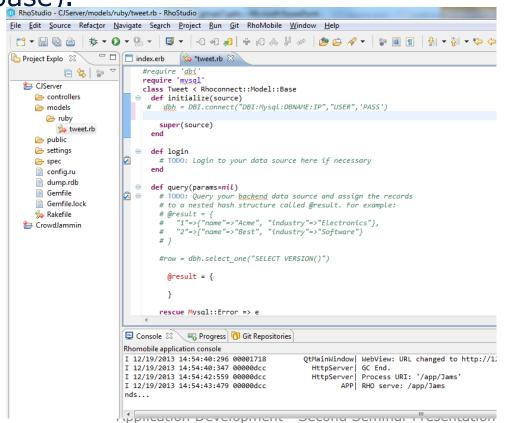


Client part of the application: Rails (HTML). Includes CRUD displays and a controller for each model.

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<pre><div data-role="page" data-url="<%= Rho::Application.startURI %>/"> </div></pre>	
<pre></pre> Console ②	
	<pre></pre>



 Server side: Ruby CRUD source adapters. Here we can use a DBI adaptor to connect to a database or parse remote data (in this case we will use a MySQL database).





 The backend-app is already uploaded to Heroku, which is a cloud platform as a service (PaaS) supporting several programming languages. It is one of the best known services for app distribution and version management.

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- Low resource cost application developed for multiple platforms using general specifications;
- Connectivity with server resolved through on-need-only ruby requests and offline scheduling capabilities of the application;
- Simple and deductive user interface.



- Audio files are recorded and encoded application side;
- Application sends audio file (after validation) to be stored server side;
- Application requests audio data and information from server which is then sent and replicated on the device;
- Requests are done with xhtml through ruby to the database;
- Data regarding the audio files (riff or jam) is intrinsically tied to the user data.



- Audio playability on the devices;
- Location awareness regarding the user and/or the riffs and jams;
- Jam data and different settings associated with it;
- Implementation of User-to-User communication.