

Roxana's projects

Overview of Internship Projects

- Open source library integration into codebase: Otto, Robolectric, Croutons.
- Implementing revenue-generating game according to PM specs.
- Writing background services for hardware and codebase communication (not shown in slides).

Otto

- A singleton bus for publishing-subscribing-registering event listeners.
 - register: `bus.register(NameOfEvent());`
 - publish: `bus.post(new NameOfEvent());`
 - subscribe: `@Subscribe`
`public void methodSubscribing(NameOfEvent()) {`
`// reaction to NameOfEvent`
`}`
- Replaces traditional explicit event registration.

Robolectric

- Allows Android unit testing and TDD without an emulator or device.
- note: Can also instantiate “shadow” classes, that emulate existing classes in code under test. e.g.:
 - `@Implements (ViewHelper.class)`

```
public class ShadowViewHelper extends Shadow {  
    @Implementation // annotation for shadow methods  
    public void getAlpha(View view) { }  
}
```

Croutons

- Context sensitive notifications.
- Call toasts as usual - toast making method has been changed to croutons.
- Library enables custom styling using Style class. e.g.

```
Style prestoStyle = new Style.Builder()  
    .setDuration(1000)  
    .setHeight()  
    .build();
```

```
Crouton.makeText(thisActivity, "ELC Rocks!", prestoStyle);
```

Final internship project

