



Pruebas Automáticas

Pruebas cruzadas grupo 10

Integrantes.

Olga Lucero Vega Marquez

Jorge Rubiano



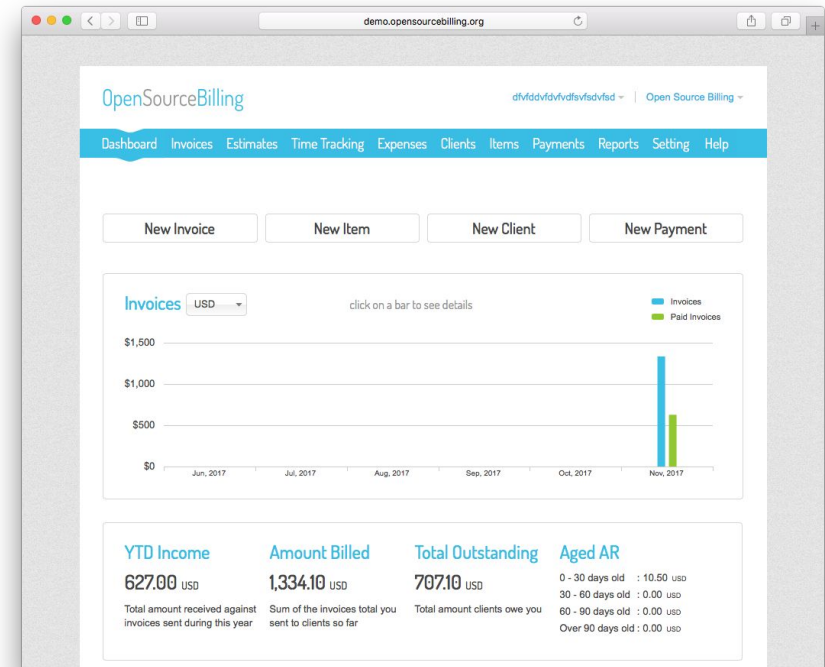
Estrategia de Pruebas - Aplicación WEB

Objetivos

- Realizar pruebas sobre las aplicaciones del grupo 10
- Aplicar con una herramienta cierto tipo de pruebas en nivel establecido.
- Evidenciar posibles defectos que pueda tener las aplicaciones web seleccionada.

Tipos

- e2e
- Monkey Testing





Infraestructura/Herramientas Aplicaciones WEB

- Equipos macOS
- [Aplicación](#)
[OpenSourceBilling.](#)
- [Aplicación MantisBT -](#)
[Bitnami](#)
- [TagUI web Automation](#)
- [Extensión TagUI.](#)
- [Extensión Monkey](#)
[Testing.](#)
- Dos Ingenieros.



TagUI

Repositorio: <https://goo.gl/x3ht84>



OpenSourceBilling

OpenSourceBilling - Aplicación Web

<http://demo.opensourcebilling.org/>



OpenSourceBilling - Tecnología

Backend.

- Ruby on Rails

Front.

- JQuery.
- moment.js

Framework JavaScript

 Moment.js

 jQuery

Framework Web

 Ruby on Rails 3.0.19

Editor de Texto Enriquecido

 TinyMCE

Lenguaje de programación

 Ruby



OpenSourceBilling - PWA - RWD

The screenshot shows the Open Source Billing dashboard in a web browser. The browser's address bar displays `demo.opensourcebilling.org/en/dashboard`. The dashboard features four circular progress indicators for different audit categories: Progressive Web App (9), Performance (0), Accessibility (89), and Best Practices (63). Below these, the 'Progressive Web App' section is expanded, showing a score of 9 and a list of 10 failed audits. To the right, a mobile device view displays the application's responsive design, including a navigation menu, a chart, and tables for invoices and recent activity.

Progressive Web App

These checks validate the aspects of a Progressive Web App, as specified by the baseline [PWA Checklist](#).

10 Failed Audits

- Does not register a service worker
- Does not respond with a 200 when offline
- Does not use HTTPS: 19 insecure requests found
- Does not redirect HTTP traffic to HTTPS
- Page load is not fast enough on 3G
Audit error: trace not at least 5 seconds longer than FMP
- User will not be prompted to Install the Web App
Failures: No manifest was fetched, Site does not register a service worker, Service worker does not successfully serve the manifest's start_url.
- Is not configured for a custom splash screen
Failures: No manifest was fetched

- Aplicación NO progresiva.
- Aplicación NO Responsive.



OpenSourceBilling - ServiceWorkers/Manifest.json

Open Source Billing

demo.opensourcebilling.org/en/dashboard

Application

- Manifest
- Service Workers
- Clear storage

Storage

- Local Storage
- Session Storage
- IndexedDB
- Web SQL
- Cookies

Cache

- Cache Storage
- Application Cache

Frames

- top

No manifest detected

A web manifest allows you to control how your app behaves when launched and displayed to the user. [Read more about the web manifest](#)

412 x 732 74%

OpenSourceBilling

Dashboard Invoices Calendar Time Tracking Expenses Clients Items Payments Reports Settings Help

New Invoice New Item New Client New Payment

Invoices

YTD Income: 627.00 Amount Billed: 1334.00 Total Outstanding: 707.00 Aged AR: 0.00

Current Invoices

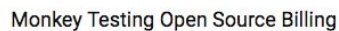
Invoice#	Client	Item	Amount	Due Date
10001	Client 1	Item 1	100.00	12/31/2017
10002	Client 2	Item 2	200.00	12/31/2017
10003	Client 3	Item 3	300.00	12/31/2017
10004	Client 4	Item 4	400.00	12/31/2017

Paid Invoices

Invoice#	Client	Item	Amount	Due Date
10001	Client 1	Item 1	100.00	12/31/2017
10002	Client 2	Item 2	200.00	12/31/2017
10003	Client 3	Item 3	300.00	12/31/2017
10004	Client 4	Item 4	400.00	12/31/2017

Recent Activity

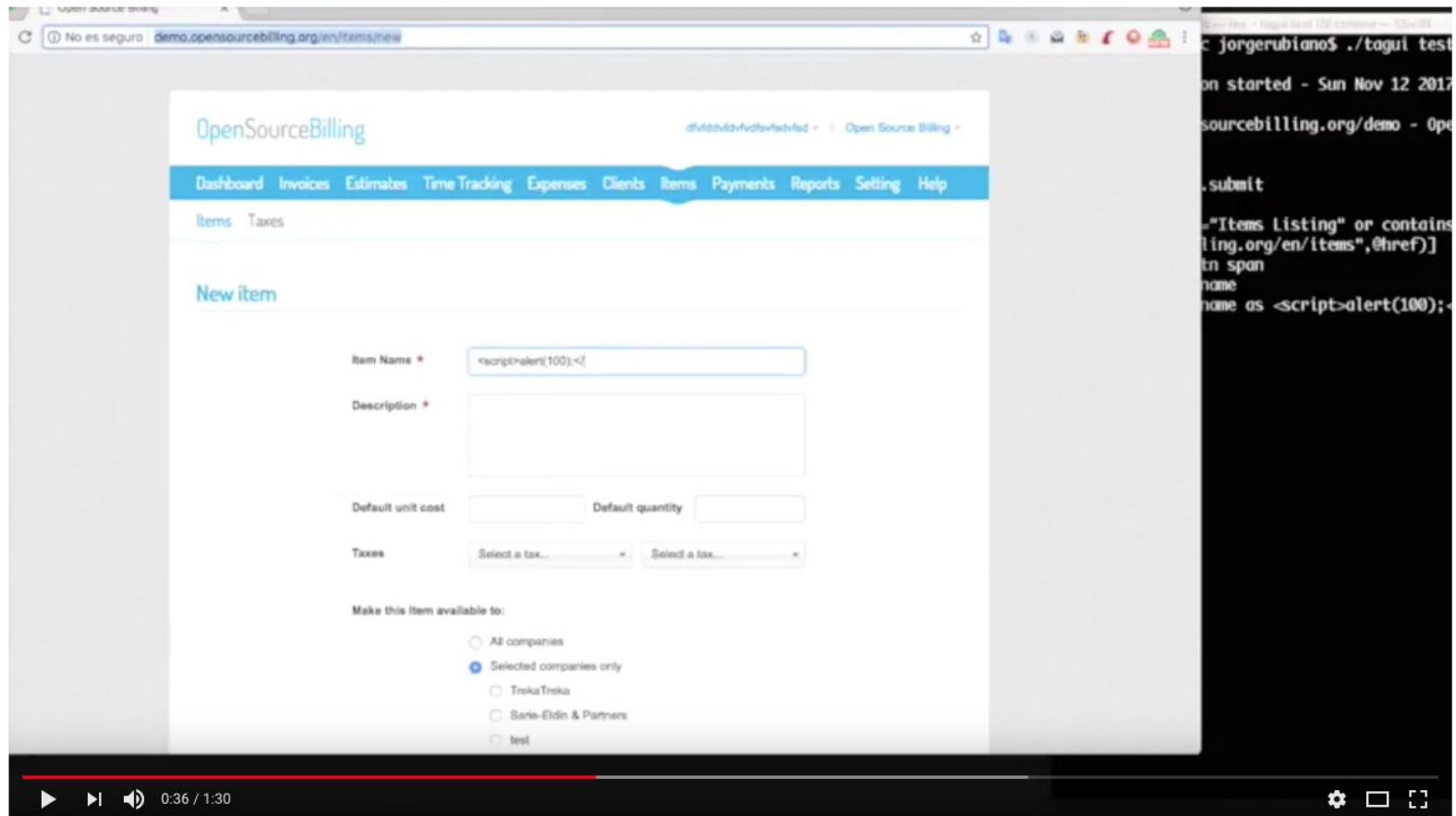
Invoice	Amount	Client	Item	Due Date
10001	100.00	Client 1	Item 1	12/31/2017
10002	200.00	Client 2	Item 2	12/31/2017
10003	300.00	Client 3	Item 3	12/31/2017
10004	400.00	Client 4	Item 4	12/31/2017



<https://youtu.be/6pNaYj7G9Pg>



OpenSourceBilling - E2E TagUI Web Automation



E2E Open Source Billing con TagUI

<https://youtu.be/gI5lFvxNp5I>



OpenSourceBilling - Creación de clientes.

Clients / Active

New Client

[Archive](#) [Delete](#) | [New Invoice](#)

Active (5) | [Archived](#) (0) | [Deleted](#) (0)

<input type="checkbox"/>	Organization	Contact	Email	Phone	Available Credit	Actions
<input type="checkbox"/>	Clase en casa SAS	Andrea Vargas	docentes.claseencasa...	3003914503	\$120.00	Edit
<input type="checkbox"/>	jsjshasjsahjsajsajhs ajksahjsa asjksabd...	shshshasdasjdgashdgahs jdgajhdgajdsgajsdgjahs...	asdjadsasdasdas@dssdad asdad.com	12345679111234 5678890000000	\$200,000.00	Edit
<input type="checkbox"/>	jsjshasjsahjsajsajhs ajksahjsa asjksabd...	shshshasdasjdgashdgahs jdgajhdgajdsgajsdgjahs...	asdjadsasdasdas@dssdad asdad.com	12345679111234 5678890000000	\$20,000.00	Edit
<input type="checkbox"/>	Client FLUTE	Client FLUTE	client@mail.com	0612345678	\$0.00	Edit
<input type="checkbox"/>	hngnhgfnh	trtryr rtyreyre	hgfgfjghfj@gfdsdfg.com	222222222	\$0.00	Edit

- Permite la creación de clientes con el mismo correo.



OpenSourceBilling - Creación de Staff

The screenshot shows the 'Edit Staff' form in the OpenSourceBilling application. The top navigation bar includes links for Dashboard, Invoices, Estimates, Time Tracking, Expenses, Clients, Items, Payments, Reports, Setting, and Help. Below this, a sub-navigation bar shows Timesheet, Projects, Tasks, Staffs, and Generate Invoice. A success message box with a green checkmark icon states 'Staff was successfully created.' The form fields are: Staff Name (with a red asterisk), Email (with a red asterisk), and Rate per hour. The Staff Name field contains a long, random string of characters. The Email field contains 'dfsdfsdfs@'. The Rate per hour field contains '34,0'. To the right of the form, there is a 'New Staff' button. Below the form, a dashed box highlights the 'Staffs / Active' section. This section includes a table with columns: Name, Email, Rate per hour, and Action(s). The table lists one staff member named 'Geek' with email 'geek@abc.com' and rate '\$0.00'. The 'Action(s)' column for 'Geek' has a link labeled 'Edit'. Above the table, there are links for 'Archive' and 'Delete', and status counts: 'Active (1)', 'Archived (0)', and 'Deleted (0)'.

Dashboard Invoices Estimates Time Tracking Expenses Clients Items Payments Reports Setting Help

Timesheet Projects Tasks Staffs Generate Invoice

Staff was successfully created.

Edit Staff

Staff Name * shdjhsdjfsgdfjhsdsdfsksdfhsksdjfhsksfhsksfdl

Email * dfsdfsdfs@

Rate per hour 34,0

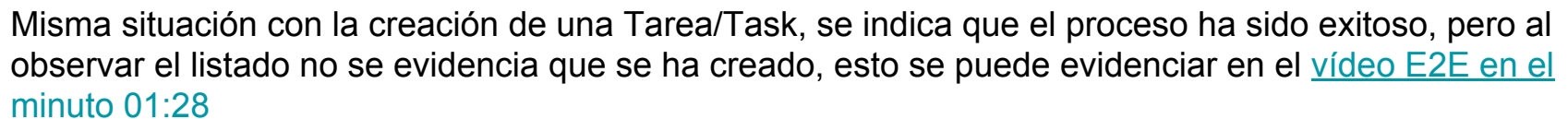
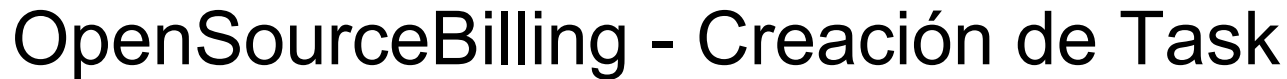
New Staff

Staffs / Active

Archive Delete Active (1) Archived (0) Deleted (0)

	Name	Email	Rate per hour	Action(s)
<input type="checkbox"/>	Geek	geek@abc.com	\$0.00	Edit

Una vez creado un Staff, se indica que el proceso ha sido exitoso, pero al observar el listado no se evidencia que éste se haya creado, esto se puede evidenciar en el [vídeo de E2E, en el minuto 01:10](#)





MantisBT - Aplicación Web

<https://bitnami.com/stack/mantis>



MantisBT - Tecnología

Backend.

- PHP 7.0

Front.

- jQuery.
- Moment.js
- List.js

The screenshot shows the Wappalyzer website interface. At the top is a dark purple header with the Wappalyzer logo (a white 'W' in a diamond) and the name 'Wappalyzer'. Below the header, the page is divided into several sections, each with a title and a list of detected technologies:

- Framework JavaScript**:
 - jQuery 1.1.1
 - List.js
 - Moment.js
- Herramienta de Cache**:
 - Google PageSpeed 1.9.32.14
- Lenguaje de programación**:
 - PHP 7.0.24
- Servidor Web**:
 - Apache
- Extensión de Servidor Web**:
 - Google PageSpeed 1.9.32.14



MantisBT - PWA - RWD

The screenshot displays a web browser window with the address bar showing `54.164.117.27/manage_proj_page.php`. The browser's developer tools are open, showing the 'Audits' tab. The audit results for the Progressive Web App (PWA) are as follows:

Audit Category	Score
Progressive Web App	36
Performance	42
Accessibility	83
Best Practices	63

The 'Progressive Web App' section details the following 7 failed audits:

- Does not register a service worker
- Does not respond with a 200 when offline
- Does not use HTTPS: 26 insecure requests found
- Does not redirect HTTP traffic to HTTPS
- User will not be prompted to Install the Web App
- Is not configured for a custom splash screen
- Address bar does not match brand colors

The mobile view of the MantisBT application is shown on the right, displaying a navigation menu with options like 'Administrar usuarios', 'Administrar proyectos', and 'Administrar campos Personalizados'. The main content area shows a list of projects and global categories.

- Aplicación NO progresiva.
- Aplicación Responsive.



MantisBT - ServiceWorkers/Manifest.json

Administrar proyectos - MantisBT

54.164.117.27/manage_proj_page.php

Elements Console Network Application >> Nexus 5X 412 x 732 74%

Application

- Manifest
- Service Workers
- Clear storage

Storage

- Local Storage
- Session Storage
- IndexedDB
- Web SQL
- Cookies

Cache

- Cache Storage
- Application Cache

Frames

- top

No manifest detected

A web manifest allows you to control how your app behaves when launched and displayed to the user. [Read more about the web manifest](#)

MantisBT

user

Administrar usuarios Administrar proyectos

Administrar etiquetas Administrar Campos Personalizados

Administrar Perfiles Globales Administrar Plugins

Administrar Configuración

Proyectos

Crear nuevo proyecto

Nombre	Estado	Activado	Visibilidad	Descripción
Primer Proyecto	en desarrollo	✓	público	Test

Categorías globales

Categoría	Asignar a	Acciones
General		Editar Eliminar

Agregar categoría

Añadir y editar categoría

Powered by MantisBT



MantisBT - Monkey Testing

The screenshot shows a web browser window with the MantisBT interface. The browser's developer console is open, displaying a red error message: "Refused to load the script 'http gremlins-wrapper.js:58 s://rawgit.com/olsh/monkey-testing/master/src/gremlins/gremlins.min.js' because it violates the following Content Security Policy directive: 'script-src 'self''." The error is attributed to "(anonymous) @ gremlins-wrapper.js:58" and "(anonymous) @ gremlins-wrapper.js:59".

The MantisBT interface on the right shows the "Administrar proyectos" (Manage Projects) page. It includes a navigation menu with options like "Administrar usuarios", "Administrar proyectos", "Administrar etiquetas", "Administrar Campos Personalizados", "Administrar Perfiles Globales", "Administrar Plugins", and "Administrar Configuración". The main content area displays a table of projects:

Nombre	Estado	Activado	Visibilidad	Descripción
Primer Proyecto	en desarrollo	✓	público	Test

Below the projects table, there is a section for "Categorías globales" (Global Categories) with a table for managing categories:

Categoría	Asignar a	Acciones
General		Editar Eliminar

At the bottom of the interface, there is a footer with the text: "Powered by MantisBT", "Copyright © 2000 - 2017 MantisBT Team", and "Contacta con el administrador por ayuda". The MantisBT logo is also present in the bottom right corner.

No es posible inyectar la librería de gremlins.js en la aplicación, ya que se tiene establecida una política CSP, la cual sólo permite scripts del mismo dominio: véase en [CSP: script-src](#)



MantisBT - E2E TagUI Web Automation

The screenshot displays a video player interface. The main content area shows a web browser window with the MantisBT application. The browser's address bar indicates the URL `54.175.176.113/manage_user_create_page.php`. The MantisBT interface includes a top navigation bar with buttons for "Reportar incidencia" and "Invitar usuarios", and a user profile dropdown. Below this is a sidebar with navigation links such as "Administrar usuarios", "Administrar proyectos", "Administrar etiquetas", "Administrar Campos Personalizados", "Administrar Perfiles Globales", "Administrar Plugins", and "Administrar Configuración". The main content area features a form titled "Crear nueva cuenta" (Create new account) with fields for "Nombre de usuario" (Test 03), "Nombre real" (Test Purueba 03), "Correo electrónico" (test03@correo.com), "Nivel de acceso" (informador), "Activado" (checked), and "Protegida" (unchecked). A "Crear usuario" button is at the bottom of the form. The footer of the MantisBT page states "Powered by MantisBT", "Copyright © 2000 - 2017 MantisBT Team", and "Contacta con el administrador por ayuda".

On the right side of the video player, a terminal window is visible, showing the execution of the TagUI test script. The terminal output includes the command `jorgerubiano$./tagui test`, the start time "n started - Sun Nov 12 2017", and the URL `.113/manage_overview_page.php`. It also shows the command `BT` and the text "Administrar usuarios" or c. Below this, it lists the test data: "13/manage_user_page.php", "e.inline.single-button-form", "me as Test 03", "me as Test Purueba 03", "as test03@correo.com", and "lmary.btn-white.btn-round".

The video player controls at the bottom show a play button, a progress bar at 0:46 / 1:02, and a volume icon.

E2E Mantis BugTracker con TagUI

<https://youtu.be/tXM7e9XfCtA>



Pruebas Aplicaciones Móviles



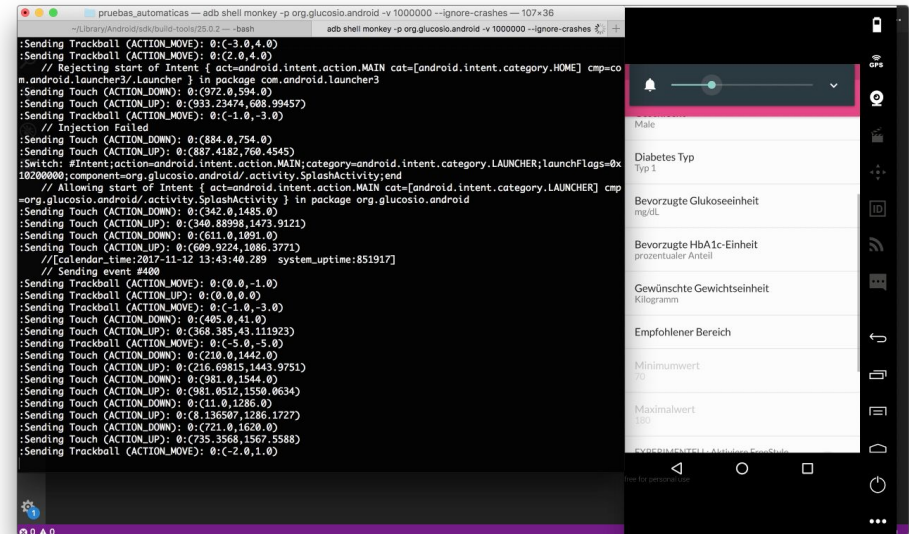
Estrategia de Pruebas - Aplicaciones Móviles

Objetivos

- Revisar las aplicaciones móviles del grupo 10
 - Aplicar "Monkey testing" controlando la secuencia de actividades (semilla) y el tipo de eventos.
- Evidenciar posibles defectos en las app.

Tipos

- Monkey Testing.

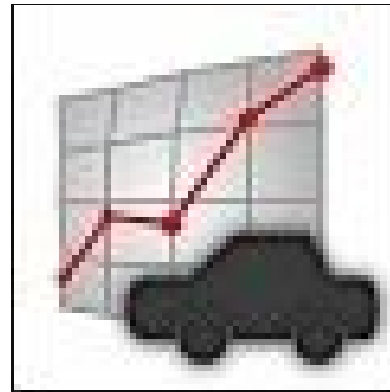




Glucosio - CarReport



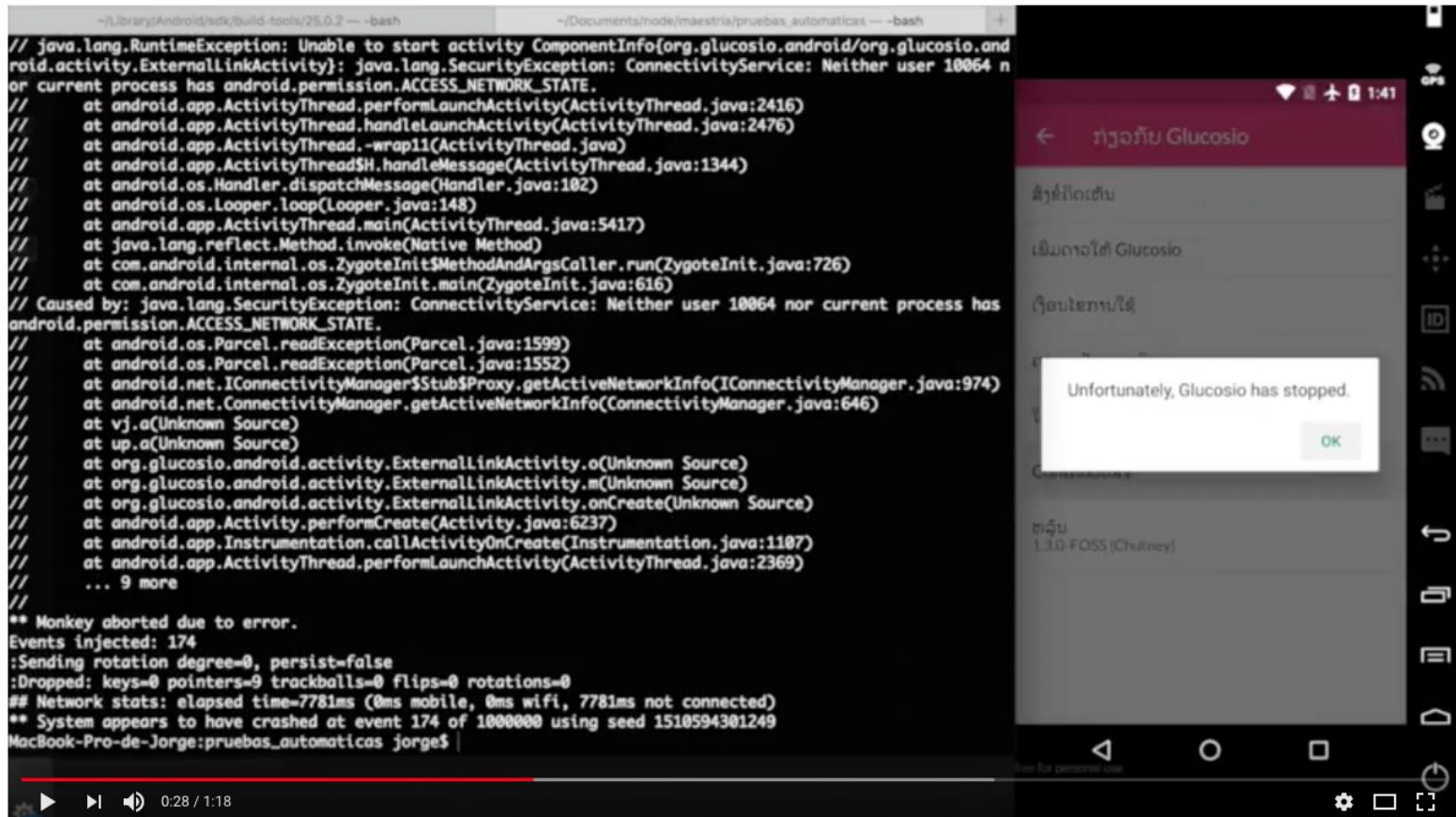
Glucosio



CarReport



Glucosio.



Monkey Testing Glucosio APP

<https://youtu.be/0K96q4YCAeU>



CarReport.

The screenshot displays a video player interface. On the left, a terminal window shows the adb shell monkey command being used to simulate user interaction with the carReport app. The terminal output includes various touch and trackball events, followed by the app's launch and a log message indicating that injection failed. On the right, the carReport app's 'Reports' screen is visible. It features two bar charts: 'Fuel consumption' and 'Fuel price'. Both charts display the message 'Not enough data'. The 'Fuel price' chart includes a red circular button with a white plus sign. The video player controls at the bottom show a progress bar at 2:08 / 2:53.

```
-l /usr/bin/AndroidSdk/build-tools/25.0.2 -- -bash adb shell monkey -p me.kuehle.rt -v 1000000 --ignore-crashes
:Sending Touch (ACTION_UP): 0:(219.21622,433.24882)
:Sending Trackball (ACTION_MOVE): 0:(-2.0,1.0)
:Sending Touch (ACTION_DOWN): 0:(488.0,1516.0)
:Sending Touch (ACTION_UP): 0:(484.67706,1614.1356)
:Sending Touch (ACTION_DOWN): 0:(573.0,273.0)
:Sending Touch (ACTION_UP): 0:(618.84216,188.44473)
:Sending Trackball (ACTION_MOVE): 0:(-4.0,-5.0)
:Sending Trackball (ACTION_UP): 0:(0.0,0.0)
:Sending Touch (ACTION_DOWN): 0:(664.0,139.0)
:Sending Touch (ACTION_UP): 0:(662.7233,287.7902)
:Sending Touch (ACTION_DOWN): 0:(285.0,1385.0)
:Sending Touch (ACTION_UP): 0:(323.10498,1398.4016)
:Sending Trackball (ACTION_MOVE): 0:(0.0,-5.0)
:Sending Touch (ACTION_DOWN): 0:(578.0,19.0)
:Sending Touch (ACTION_UP): 0:(582.08624,34.535827)
:Switch: #Intent;action=android.intent.action.MAIN;category=android.intent.category.LAUNCHER;launchFlags=0x10200000;component=me.kuehle.carreport/.gui.MainActivity;end
// Allowing start of Intent { act=android.intent.action.MAIN cat=[android.intent.category.LAUNCHER] cmp=me.kuehle.carreport/.gui.MainActivity } in package me.kuehle.carreport
:Sending Touch (ACTION_DOWN): 0:(561.0,697.0)
:Sending Touch (ACTION_UP): 0:(589.03644,710.1002)
:Sending Touch (ACTION_DOWN): 0:(62.0,559.0)
//[calendar_time:2017-11-12 14:07:51.333 system_uptime:2302961]
// Sending event #14100
:Sending Touch (ACTION_UP): 0:(79.34662,521.46954)
:Sending Trackball (ACTION_MOVE): 0:(1.0,-4.0)
:Sending Trackball (ACTION_MOVE): 0:(-2.0,-4.0)
// Rejecting start of Intent { act=android.intent.action.MAIN cat=[android.intent.category.HOME] cmp=com.android.launcher3/.Launcher } in package com.android.launcher3
:Sending Touch (ACTION_DOWN): 0:(234.0,1184.0)
:Sending Touch (ACTION_UP): 0:(236.2802,1176.615)
:Sending Touch (ACTION_DOWN): 0:(98.0,1524.0)
:Sending Touch (ACTION_UP): 0:(36.002630,1517.0106)
:Sending Trackball (ACTION_MOVE): 0:(-1.0,0.0)
// Injection Failed
```

Monkey Testing carReport APP

<https://youtu.be/DQUaN1jGEIM>