# CS5551 – Advanved Software Engineering
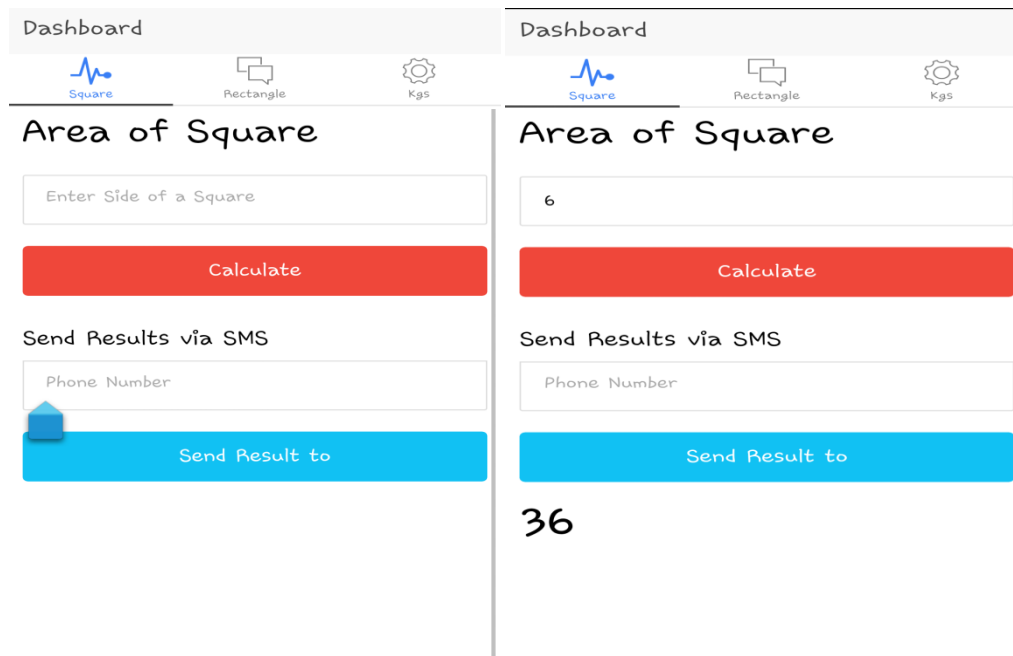
## Dr. Yugyung Lee

## Assignment# 9

**Submitted by Swetha Chandra Karroti | Class ID: 21 | 16208563**

Task: Develop an Ionic Application using a Cordova Plugin and test the performance using YSlow.
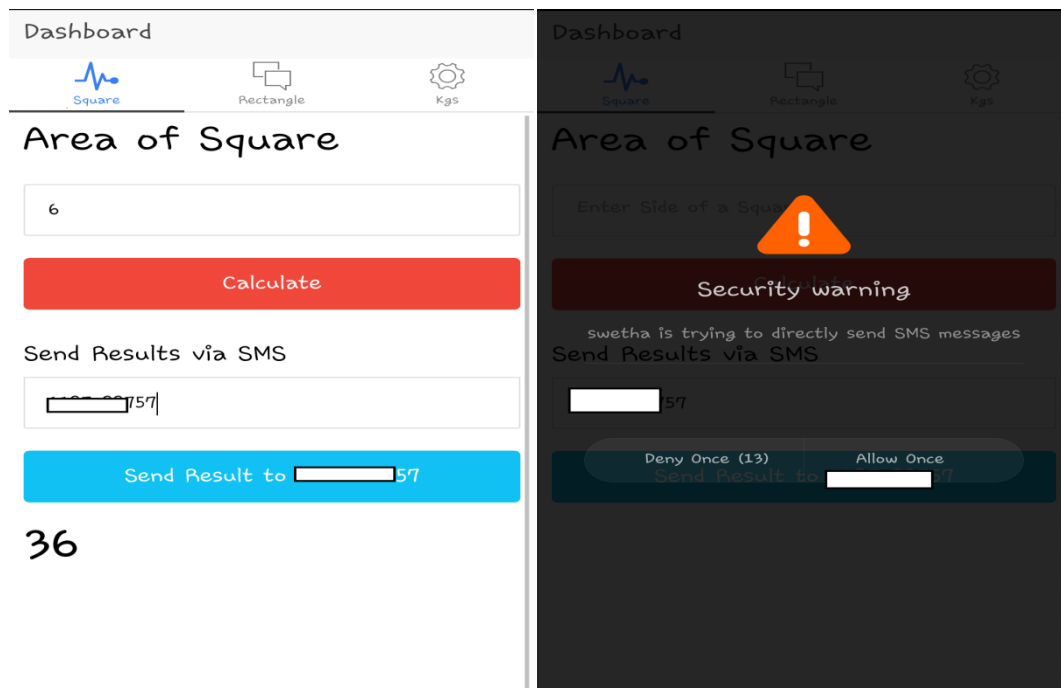
Steps Involved:

1. ngCordova has been installed using Bower.
2. Cordova SMS plugin has been installed and ngCordova dependency has been added to the angular module.
3. The Results of Computations are sent via an SMS to the number that is entered in the input box.
4. The Application is deployed to an Android device and tested.
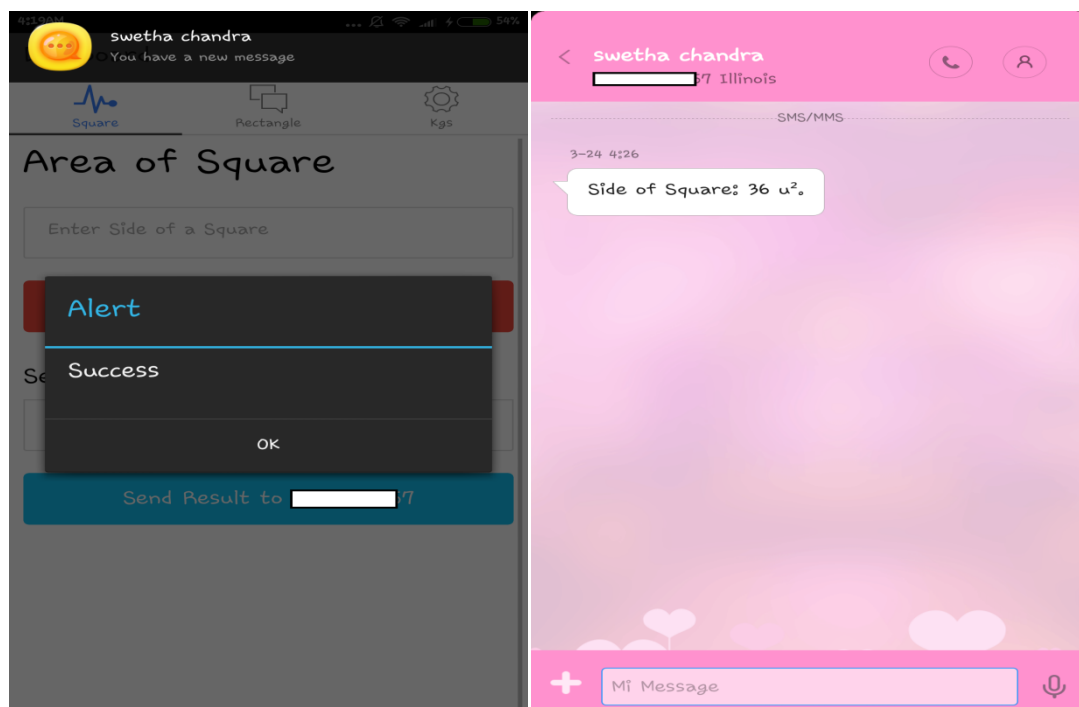5. YSlow plugin for Chrome has been installed.
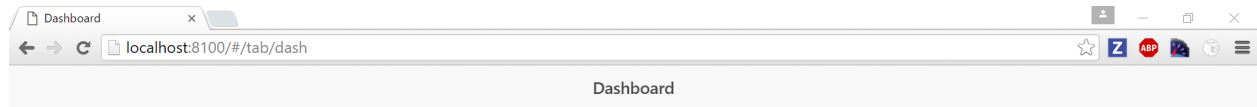
Screenshots:

Number is entered to send the result | The application asks for permission.



If there are no errors, Success message is displayed | Received Text Message – Result of Area of Square.

**YSlow Screenshots:**



Dashboard

# Area of Square

Enter Side of a Square

Calculate

## Result:



chrome-extension://ninejjcohidippngpapiilnmkgllmakh/yslow.html#1

Home | Grade | Components | Statistics                Rulesets  YSlow(V2) ▼   Edit   | ⓘ Help ↓

**Grade C**   Overall performance score 78    Ruleset applied: YSlow(V2)    URL: http://localhost:8100/#/tab/dash

ALL (23)  FILTER BY:  CONTENT (6) | COOKIE (2) | CSS (6) | IMAGES (2) | JAVASCRIPT (4) | SERVER (6)    Tweet   Share

B  Make fewer HTTP requests
F  Use a Content Delivery Network (CDN)
A  Avoid empty src or href
F  Add Expires headers
F  Compress components with gzip
A  Put CSS at top
C  Put JavaScript at bottom

### Grade B on Make fewer HTTP requests

This page has 7 external Javascript scripts. Try combining them into one.

Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps.

»Read More

---

Dashboard

# Area of Square

Enter Side of a Square

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## Result:



chrome-extension://ninejjcohidippngpapiilnmkgllmakh/yslow.html#1

Home | Grade | Components | Statistics                Rulesets  YSlow(V2) ▼   Edit   | ⓘ Help ↓

**Statistics**    The page has a total of **12** HTTP requests and a total weight of **2773.5K** bytes with empty cache

**WEIGHT GRAPHS**

Empty Cache

**HTTP Requests - 12**
**Total Weight - 2773.5K**

| | 1 HTML/Text | 2.6K |
| | 7 JavaScript File | 2401.1K |
| | 2 Stylesheet File | 249.0K |
| | 1 Favicon | 0.02K |
| | 1 undefined | 120.7K |

Primed Cache

**HTTP Requests - 12**
**Total Weight - 42.2K**

| | 1 HTML/Text | 2.6K |
| | 7 JavaScript File | 39.5K |
| | 2 Stylesheet File | 0.04K |
| | 1 Favicon | 0.02K |
| | 1 undefined | 0.0K |

localhost:8100/#/tab/chats

## Area of Rectagle

Enter Length

Enter Breadth

Calculate

chrome-extension://ninejjcohidippngpapiilnmkgllmakh/yslow.html#1

Home | Grade | Components | Statistics     Rulesets YSlow(V2) ▼ | Edit | ? Help ↓

**Grade C**   Overall performance score 78   Ruleset applied: YSlow(V2)   URL: http://localhost:8100/#/tab/chats

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| | |
|---|---|
| **B** | **Make fewer HTTP requests** |
| **F** | **Use a Content Delivery Network (CDN)** |
| **A** | **Avoid empty src or href** |
| **F** | **Add Expires headers** |
| **F** | **Compress components with gzip** |
| **A** | **Put CSS at top** |
| **C** | **Put JavaScript at bottom** |
| **A** | **Avoid CSS expressions** |

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**»Read More**

localhost:8100/#/tab/chats

## Area of Rectagle

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localhost:8100/#/tab/account

# Pounds to KGS

Enter value in Pounds

**Calculate**

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chrome-extension://ninejjcohidippngpapiilnmkgllmakh/yslow.html#1

| Home | Grade | Components | Statistics |

Rulesets YSlow(V2) ▾ Edit | ? Help ↓

**Grade C**  Overall performance score 78   Ruleset applied: YSlow(V2)   URL: http://localhost:8100/#/tab/account

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🐦 Tweet   f Share

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