MyClassboard

Android application

https://drive.google.com/file/d/16viGDLQOE2unl3r0F1UyxG3JtAO-J681/view?usp=sharing

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Age 8 years

Class: Std V - H

Version 2

Date:

Contents

Application description

MyClassboard Android application is created based on the requirements below:

Requirement 1: Get all the schedule in one calendar view

1. Unit Tests per month

2. Activities per month

3. Quarterly Assessments

4. Holidays

Advantages

1. Built with integration with Google Calendar
2. Class teacher needs to update Google Calendar only.
3. Reduce chances of missing schedule
4. One place of reference of schedule
5. Can be updated in just few mints
6. Available to all parents on the move at one place to refer for schedule

Current Difficulties

1. Need to refer to School Dairy multiple times and find pages where we have written the schedule.
2. My Class board provides them on multiple places and in different file formats.

Requirement 2: Get all the Assignment tasks for all subjects

1. Homework for each lesson

2. Prepare a chapter at home

3. Write question and answers, fill in the blanks etc. for a chapter

4. Activity assignments details

5. Unit test syllabus

Advantages

1. Class teacher needs to update Google Spreadsheet.

2. Google Spreadsheet gets published immediately.

3. Update layout of the spreadsheet without impacting the Application layout.

Requirement 3: Get all Announcements

1. Additional activity courses to enrol

2. Holiday notice

3. Competition announcements

4. Major Event announcements

5. Extra-curricular activity announcements

6. Fee payment notice

Advantages

1. School Admin needs to update Google Spreadsheet.

2. Google Spreadsheet gets published immediately.

3. Application gets instant update.

4. Update layout of the spreadsheet without impacting the Application layout.

Requirement 4: Get all documents uploaded in separate folders

1. Question sets

2. Monthly activity details

3. Semester Exam syllabus

4. Unit test schedule and syllabus

5. Project details

Advantage

1. Class teacher needs to upload to Google Drive.

2. Document gets published immediately.

3. Application gets instant update.

4. No impact to the Application layout.

Requirement 5: Publish Events with pictures

1. Tournament Achievements

2. Workshops

3. Celebrations

Advantage

1. Class teacher needs to update Google Webpage.

2. Google webpage integrates with Google photos, Drive, spreadsheet, Docs etc.

3. Page gets published immediately.

4. Application gets instant update.

5. No impact to the Application layout on changing the webpage layout.

## Requirement 6: Training Videos for reference

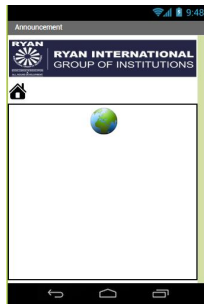1. Videos that should help students to understand topics

Design

1. MIT App Inventor as the Android development environment

2. MIT AI App companion used as Application emulator to test

3. The application integrates with Google applications under read-only public view

   a. Google Calendar used to record and publish schedule

   b. Google spreadsheet used to record and publish Assignments

   c. Google Spreadsheet used to record and publish Announcements

   d. Google Drive used to upload and publish documents

   e. Google Website and Webpage used to publish events

   f. Google Website and webpage used to publish tutorial videos

4. Embed HTML code from Google applications to be used to display on the Application web viewer.

5. GitHub Repository and Webpages used to integrate embedded webpages into Android App

6. No external applications required by user eg. MS word, Pdf reader etc.

7. Coding is at 'building block' level and not syntax type statements.

8. No specific programming language is used.

MyClassboard Android application

User Interface and Navigation Design
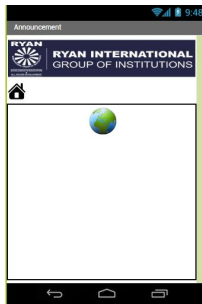
Announcement Screen   **Assignment Screen**   **Documents screen**
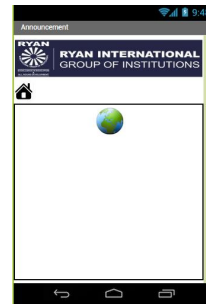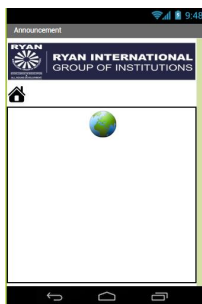
Activity Screen   **Home Screen**   **Schedule Screen**
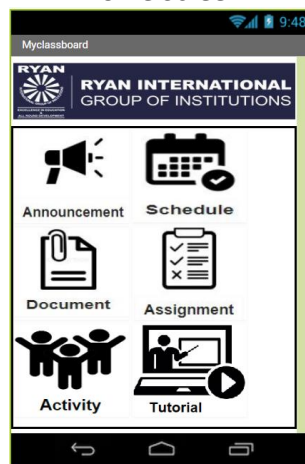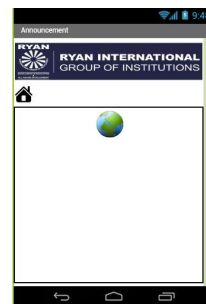
Tutorial Screen
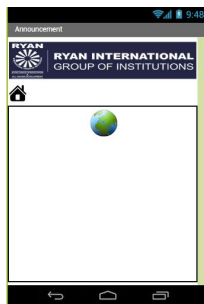
Google spreadsheet Integration design

| Create Announcement layout | → | Publish a sheet | → | Create Webpage in Github | → | Embedd Google sheet to webpage | → | Load webpage from Webviewer |

MyClassboard Android application
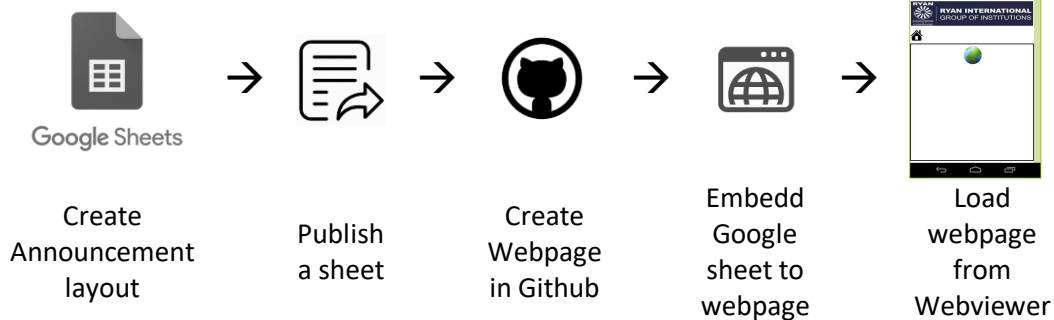
GitHub Integration

GitHub is a web-based hosting service used for computer code. It offers version control and source code management functionality of Git as well as web hosting service.

 → →

Create Repository Create Webpage Embedd Google sheet and drive to webpage

Google drive integration design

 → → →

Create Folder Classboard and Share for Public read only

Create Web link

Embedd Goggle drive to webpage

Load webpage from Webviewer
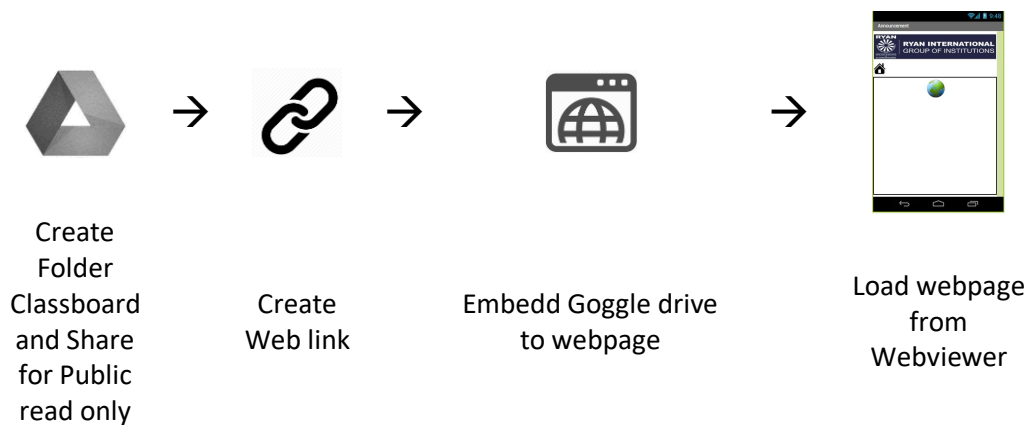
Google website integration design

 → → →

Create website and publish

Create Webpage and Publish

Get the webpage link

Load webpage from Webviewer
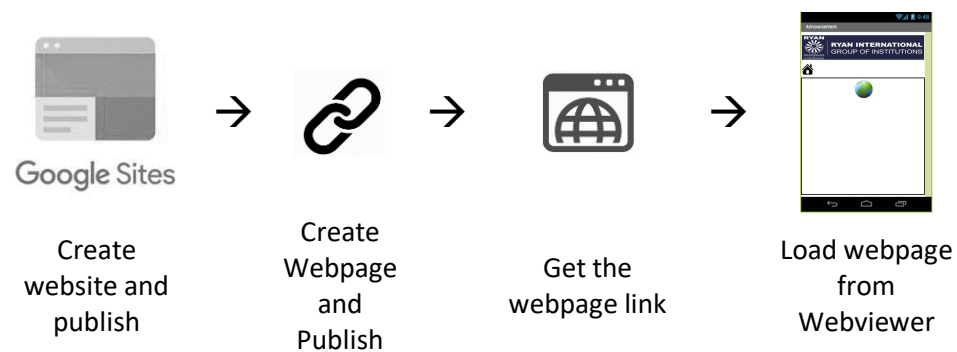
Home Screen
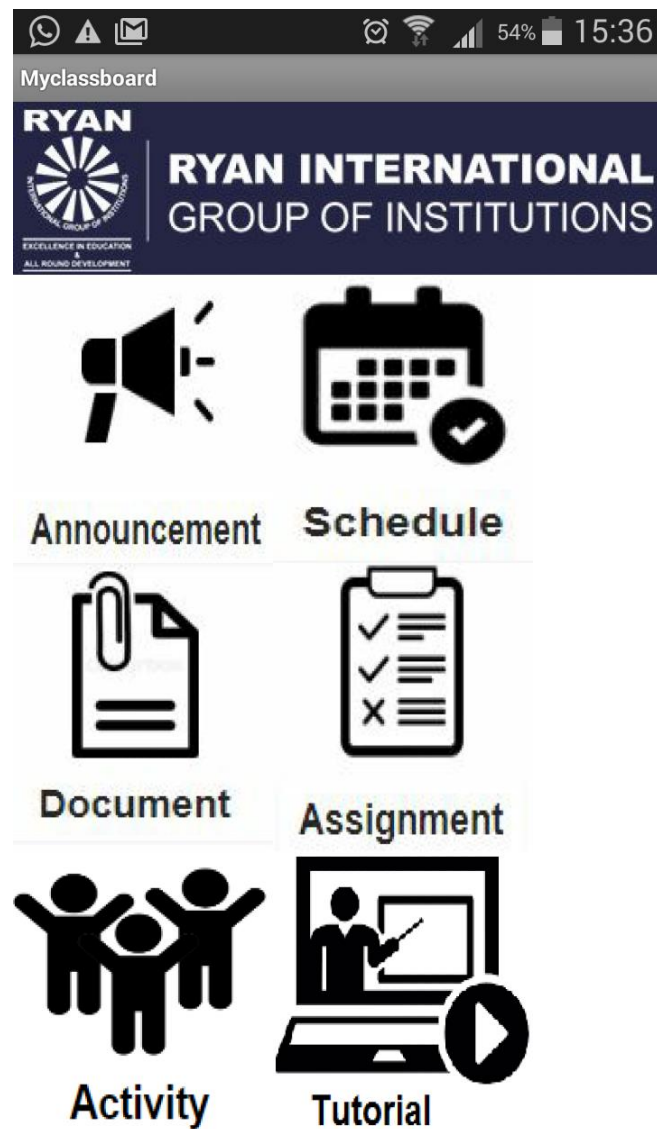
Announcement Screen
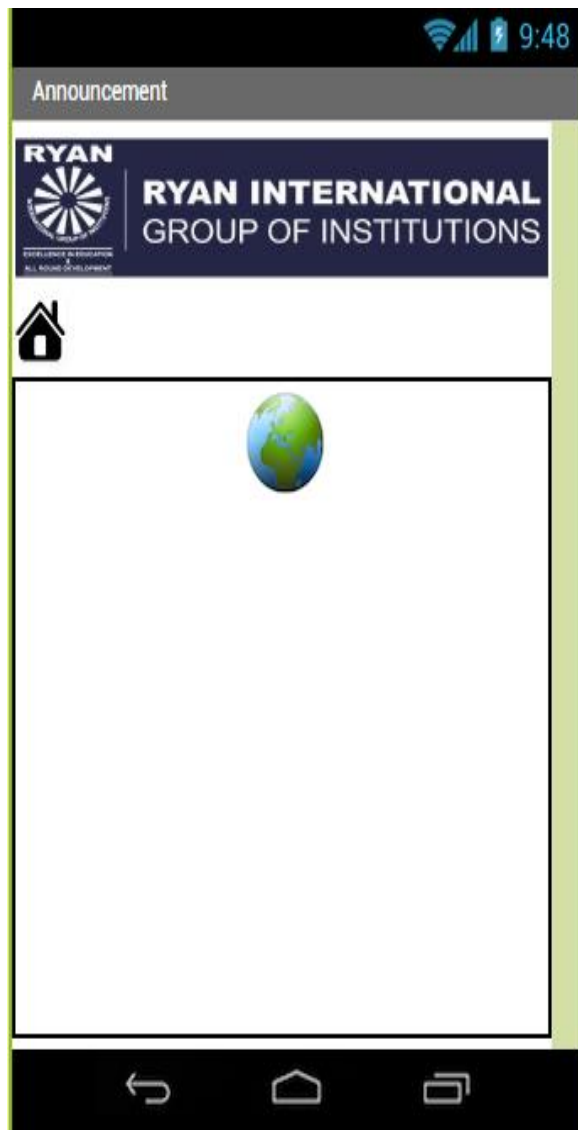
Design Layout   **Application Preview**
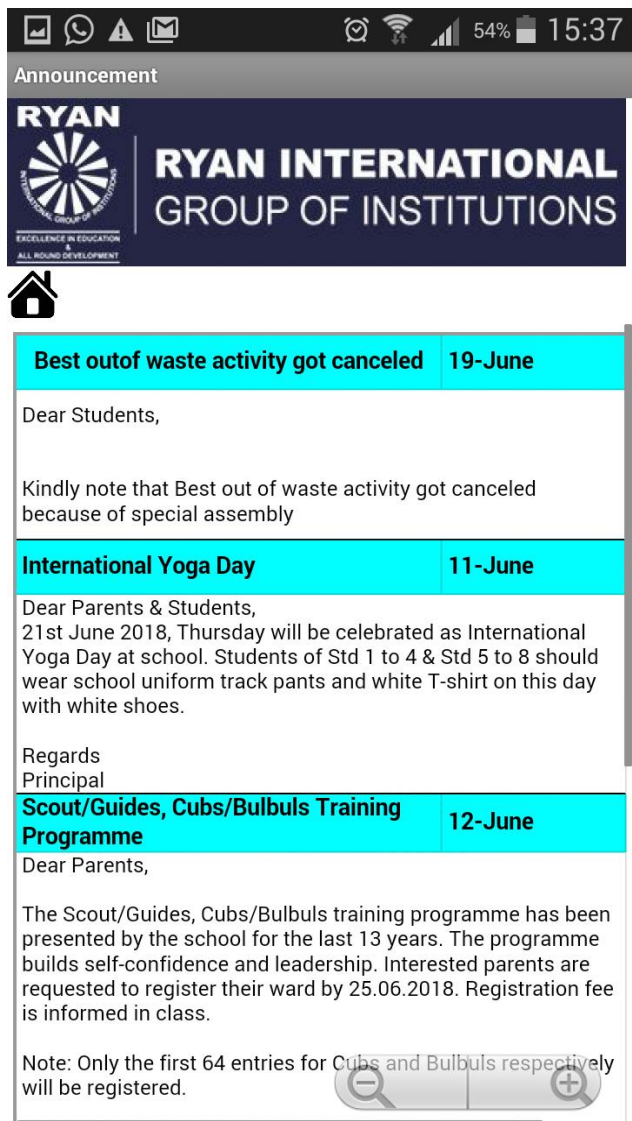
Documents Screen

Design Layout   **Application Preview**
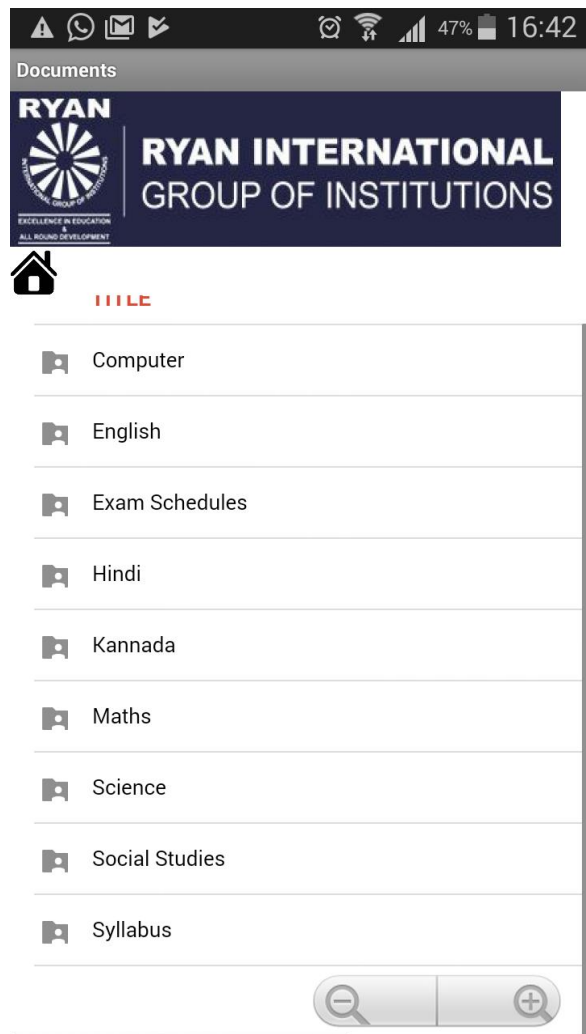
Calendar Screen

Design Layout   **Application Preview**

Calender

RYAN INTERNATIONAL
GROUP OF INSTITUTIONS

Calender

RYAN INTERNATIONAL
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Activity schedule

Today ◄ ► Friday, 29 June ▼

Monday, 2 July

SST Class Test Chapter1

When	Monday, 2 Jul 2018
Description	Question and answers
	Fill in the blanks
	True and False

more details» copy to my calendar

Tuesday, 3 July

Activity - Best out of waste

Wednesday, 4 July

science test chapter 1

When	Wednesday, 4 Jul 2018
Description	Question and answers
	Fill in the blanks
	drawings
	True and False

more details» copy to my calendar

Displaying events until 31/8. Look for more

Assignment Screen

Design Layout   **Application Preview**

Social Studies	Chapter 1	19-June
work sheet for chapter-1The Earliest people...1. Define i. Ancest Evolutioniii. Gradualiv.Fossilv. Tracevi.pigment2.Write brief note lucy.3. write a note on i. life of Early humansii. cave paintingsii. fossils and bonesiii. tools (Description)		
Science	Homework	11-June
Learn the short answers marked in the class today.		
Science	Homework	12-June
Do QA,B,C of pg 158,159 in the textbook.		
Science	Homework	8-June
Revise the key terms of the lesson "The circulatory system". Stu are requested to bring their science notebook on Monday. (Description)		
Science	Homework	8-June
Read till blood vessels from lesson 1.		
Science	Homework	8-June
Read till blood vessels from lesson 1.		
Science	Homework	8-June

Activity Screen
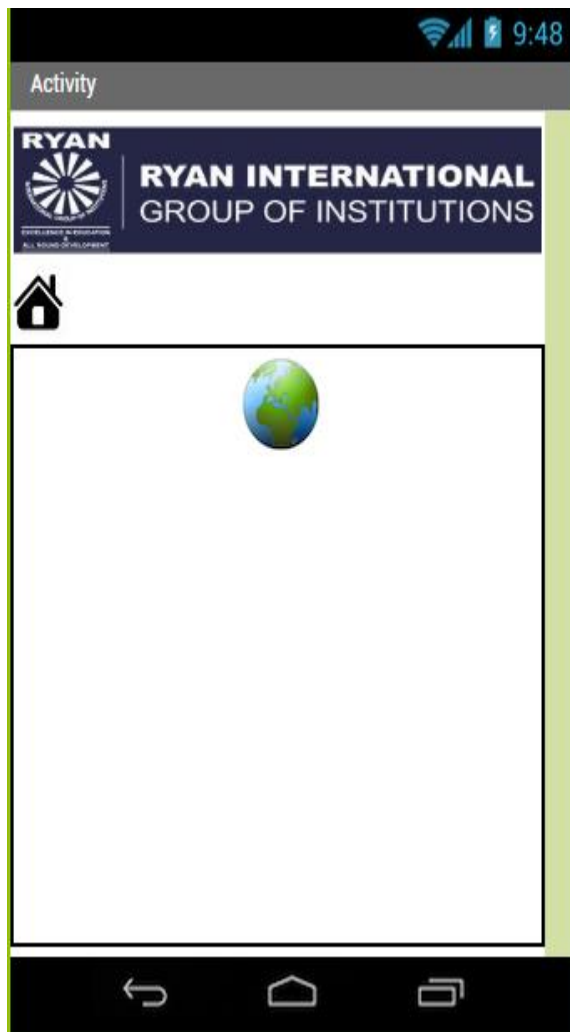
Design Layout	Application Preview
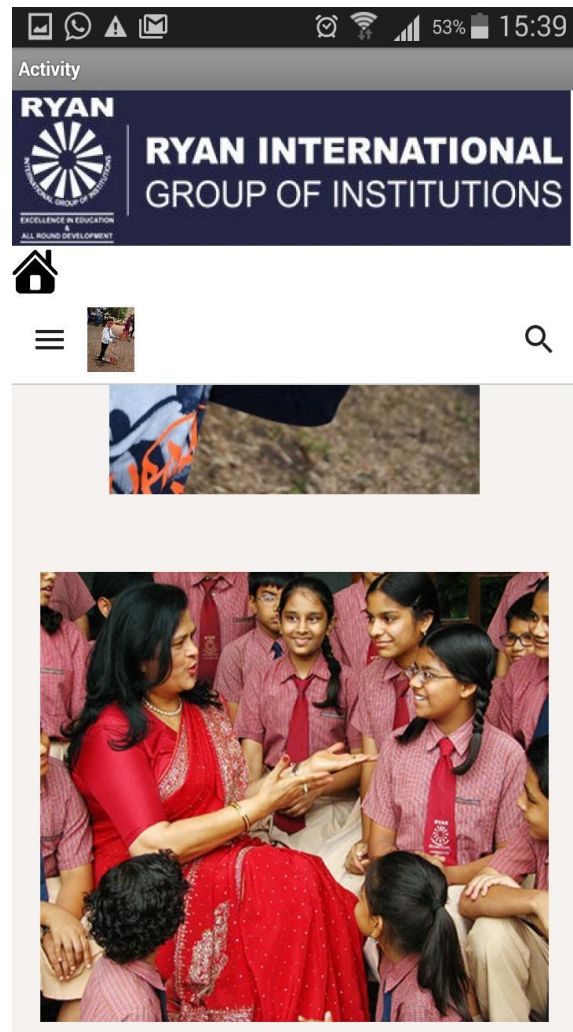
Tutorial Screen
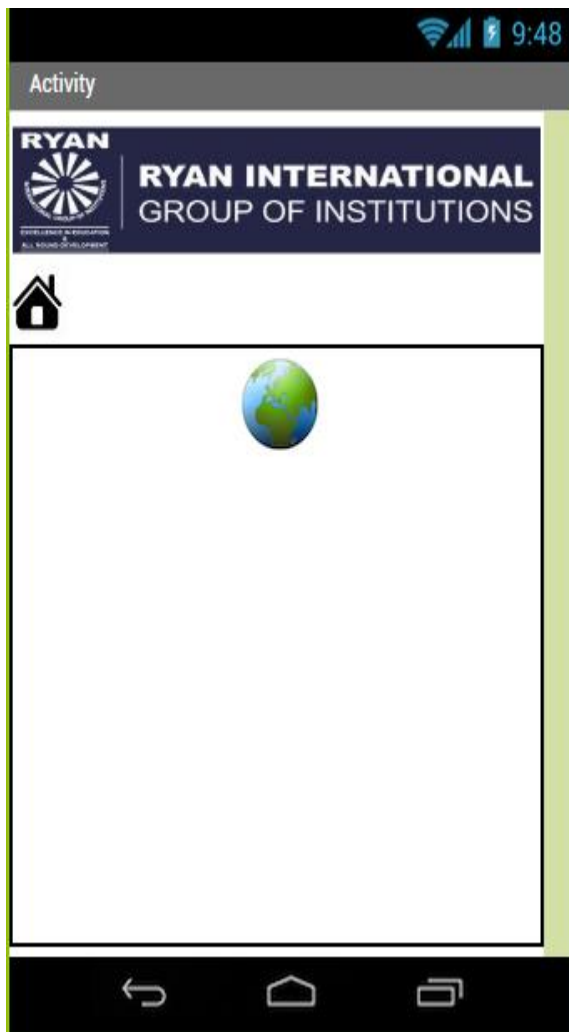
Design Layout   **Application Preview**
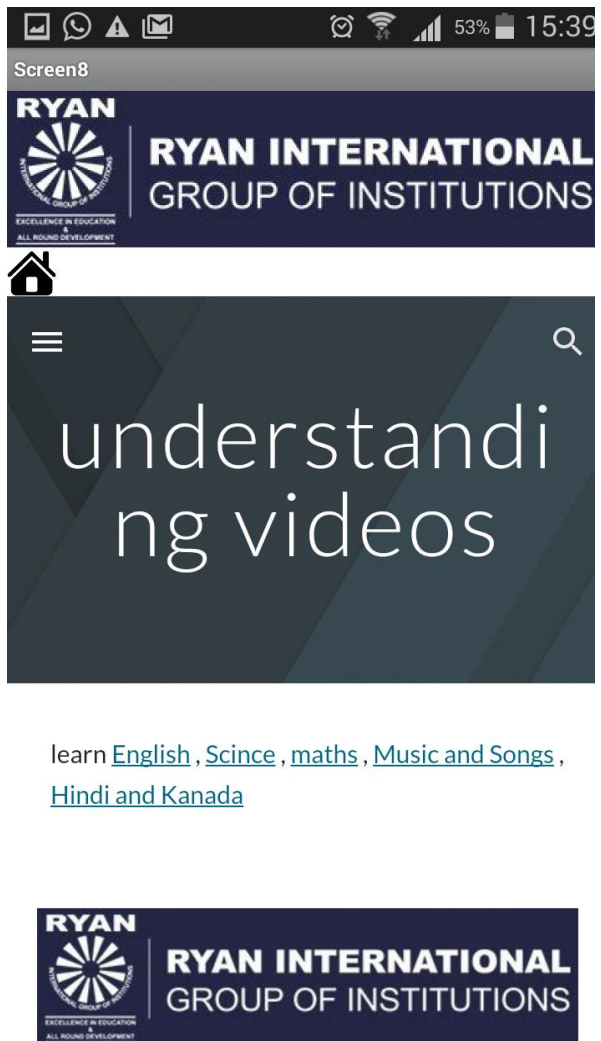
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Source Code

Home Screen:
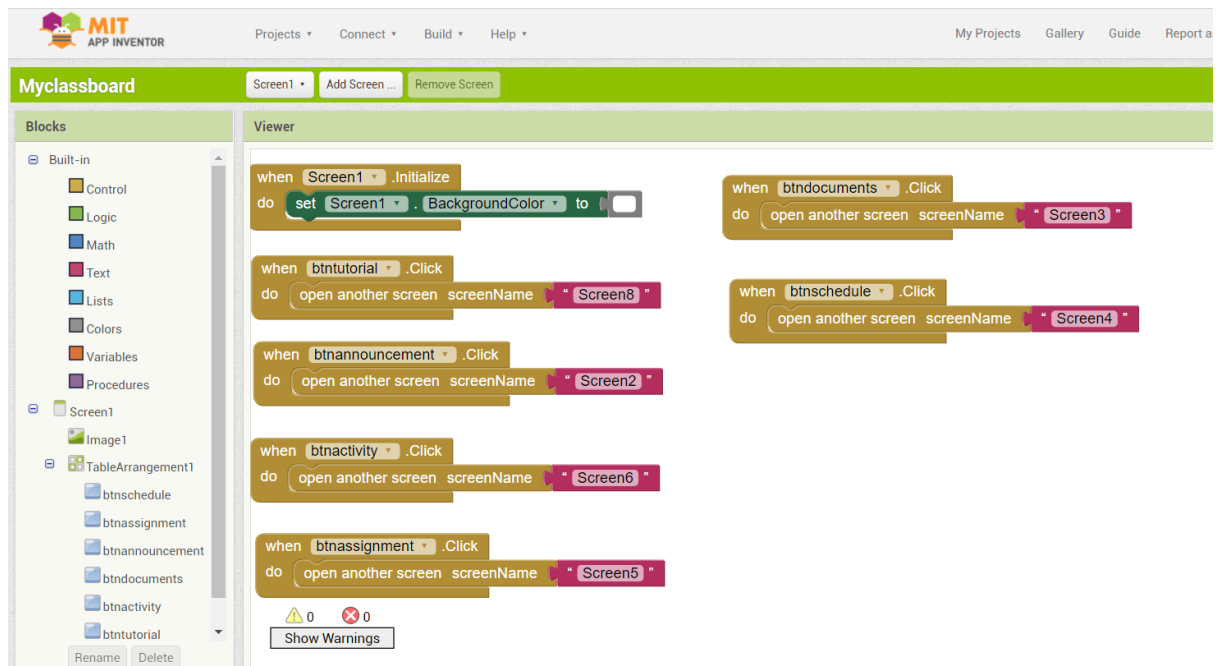
Source Code:

Utility Screen have same code layout

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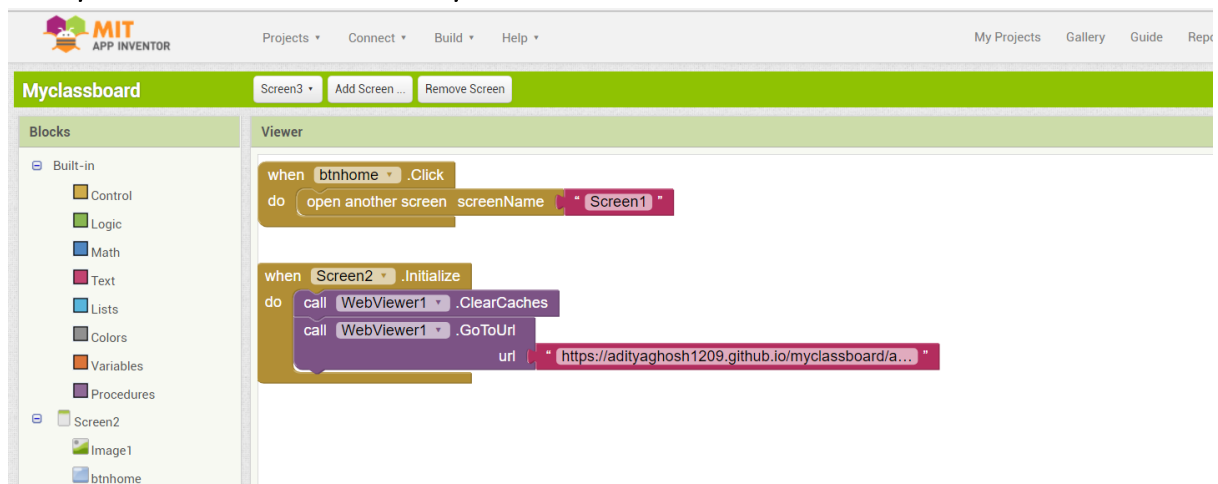
User Interface Layout Design details – Home Screen

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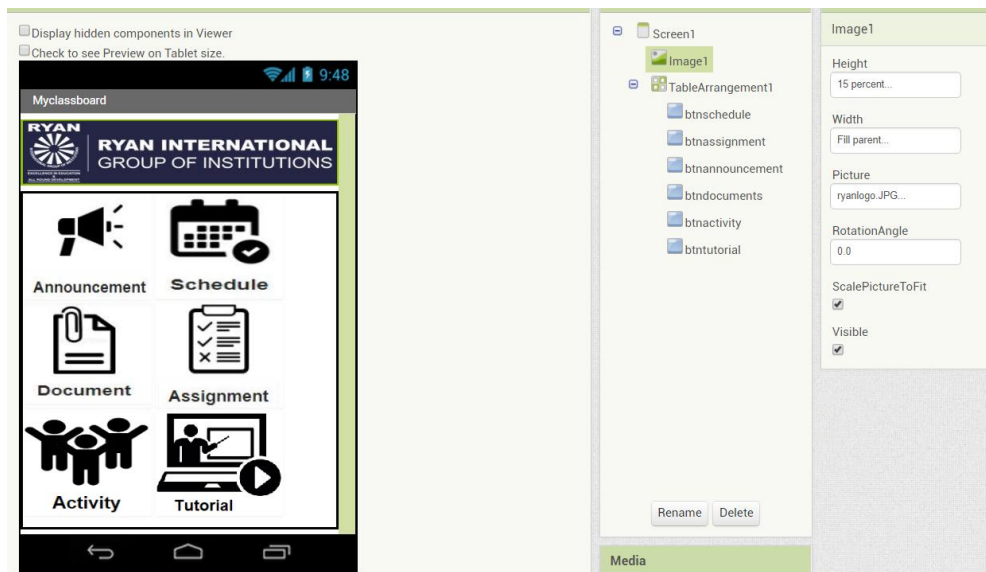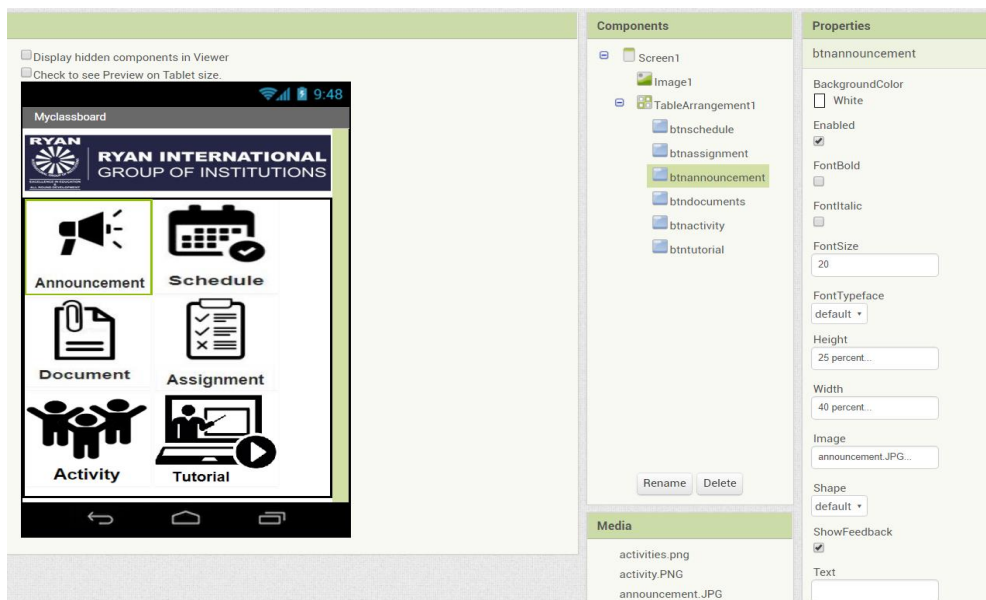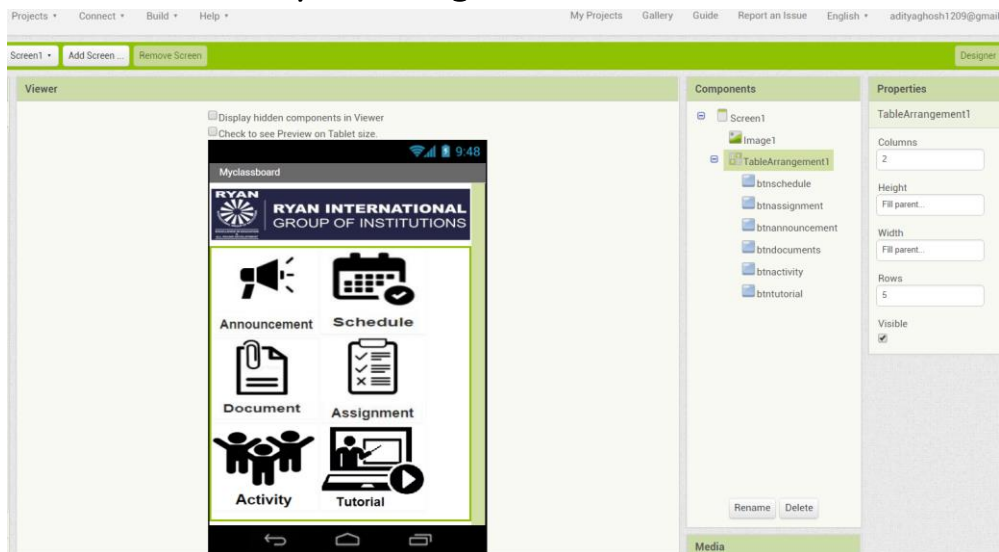
User Interface Design details – Utility screens
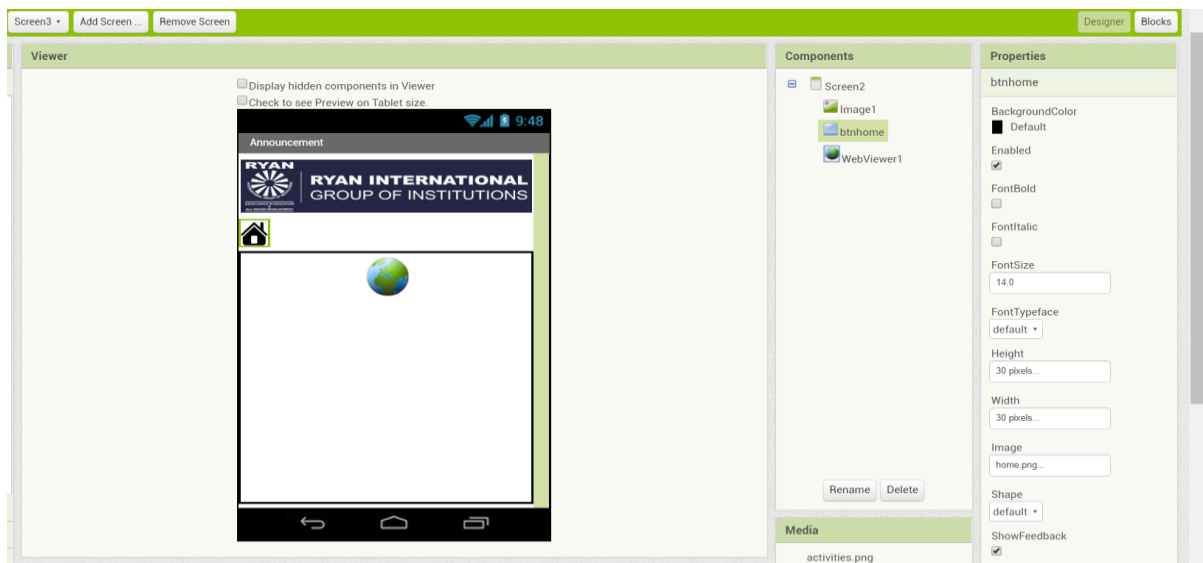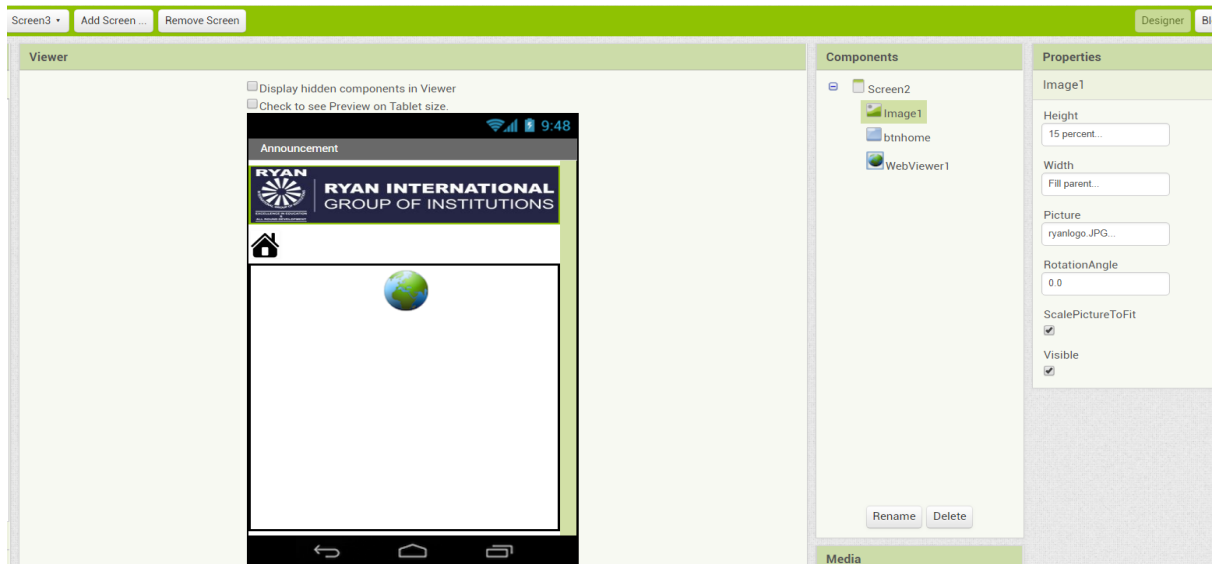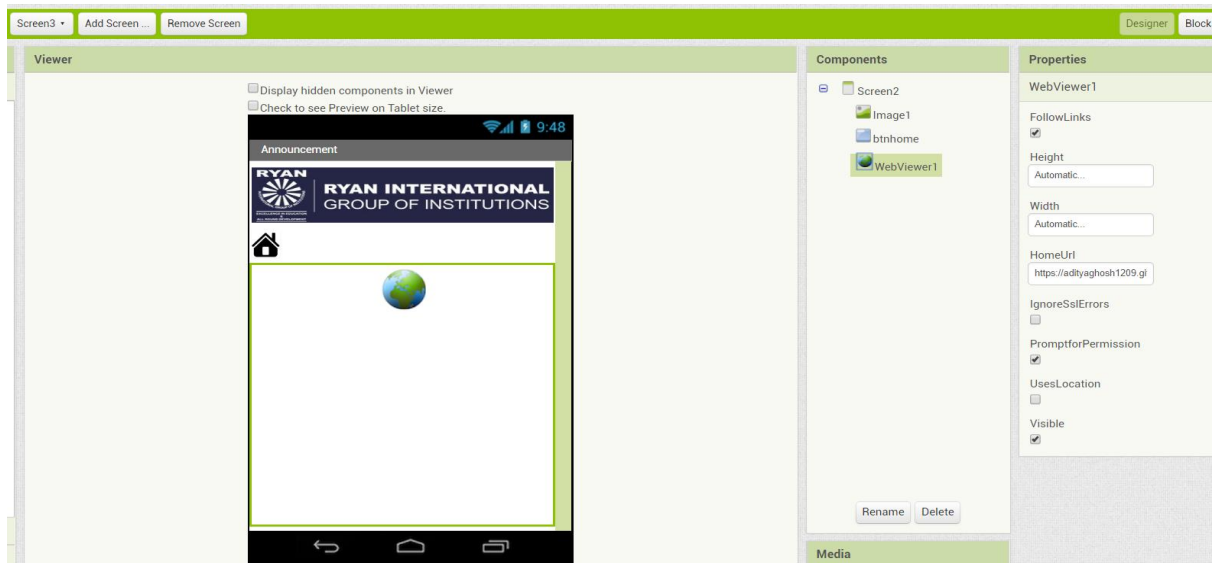
Get HTML code from Google Spreadsheet

Create HTML file in GITHUB

Click Create New file under <>Code tab.

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Update HTML code in GitHub Webpage and click Commit to save the changes.
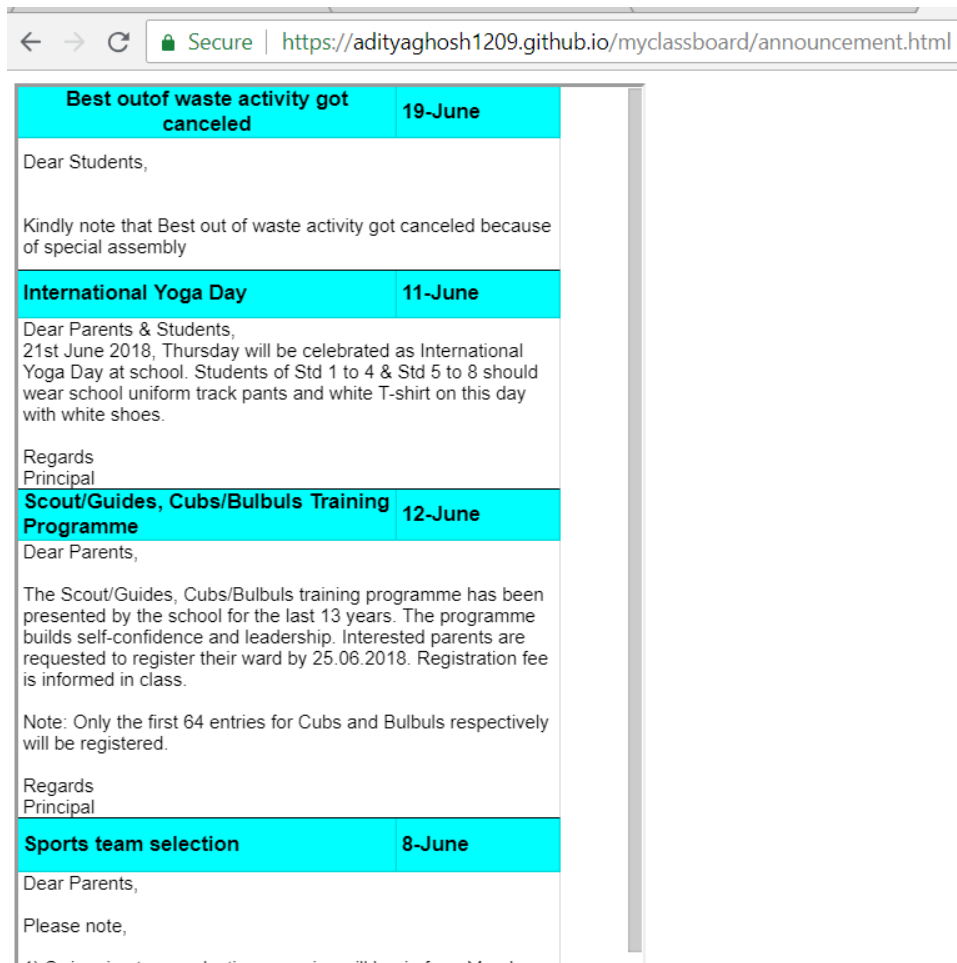
Test the HTML Code.

Finally update the Android Application Web viewer with the code.

Get Shared linked from Google Drive

Make the folder shared as read-only.

Get the Shared link and update the Android Application Web viewer with the code.
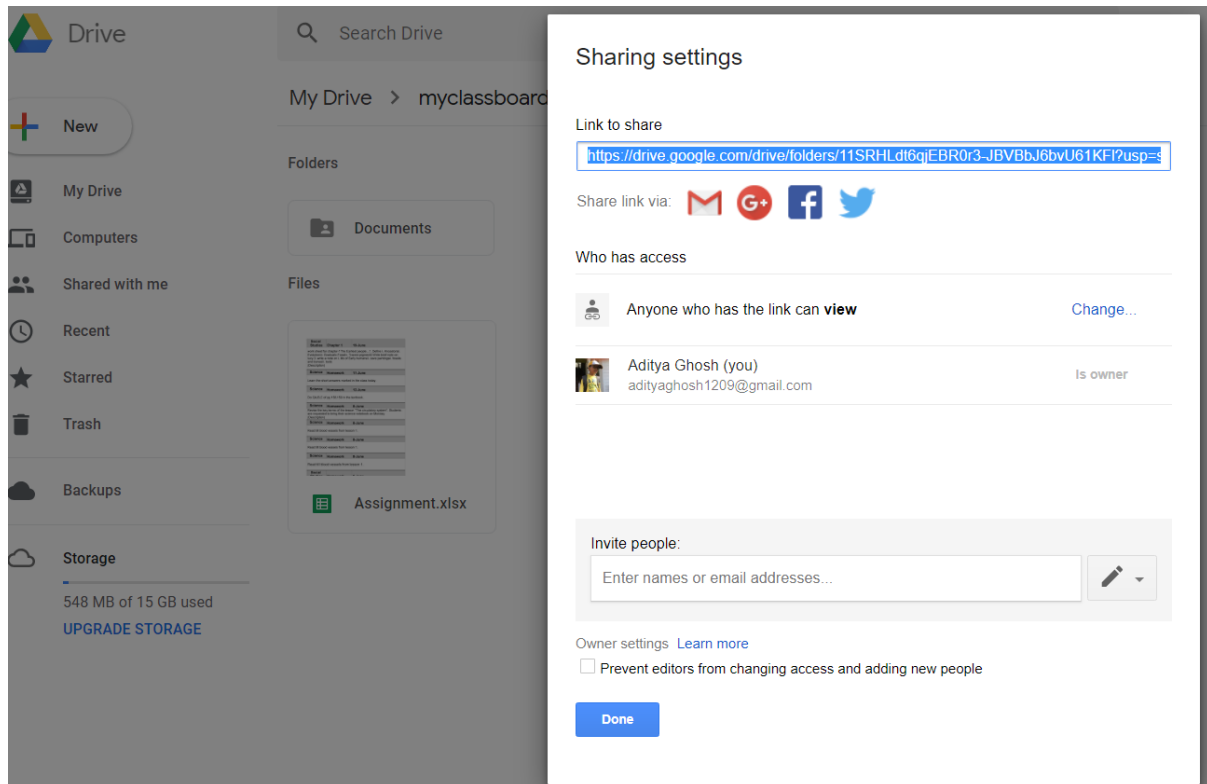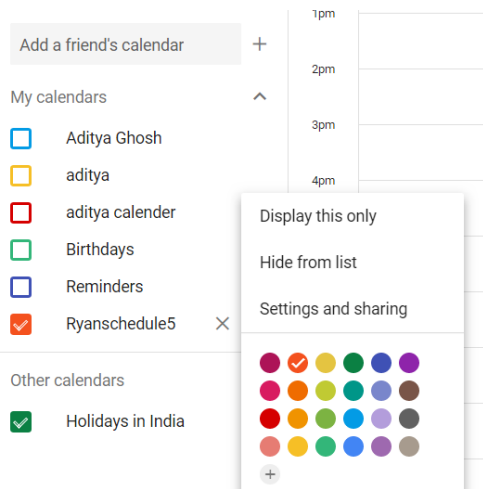
Get Google Site address
Get the Shared link and update the Android Application Web viewer with the code.
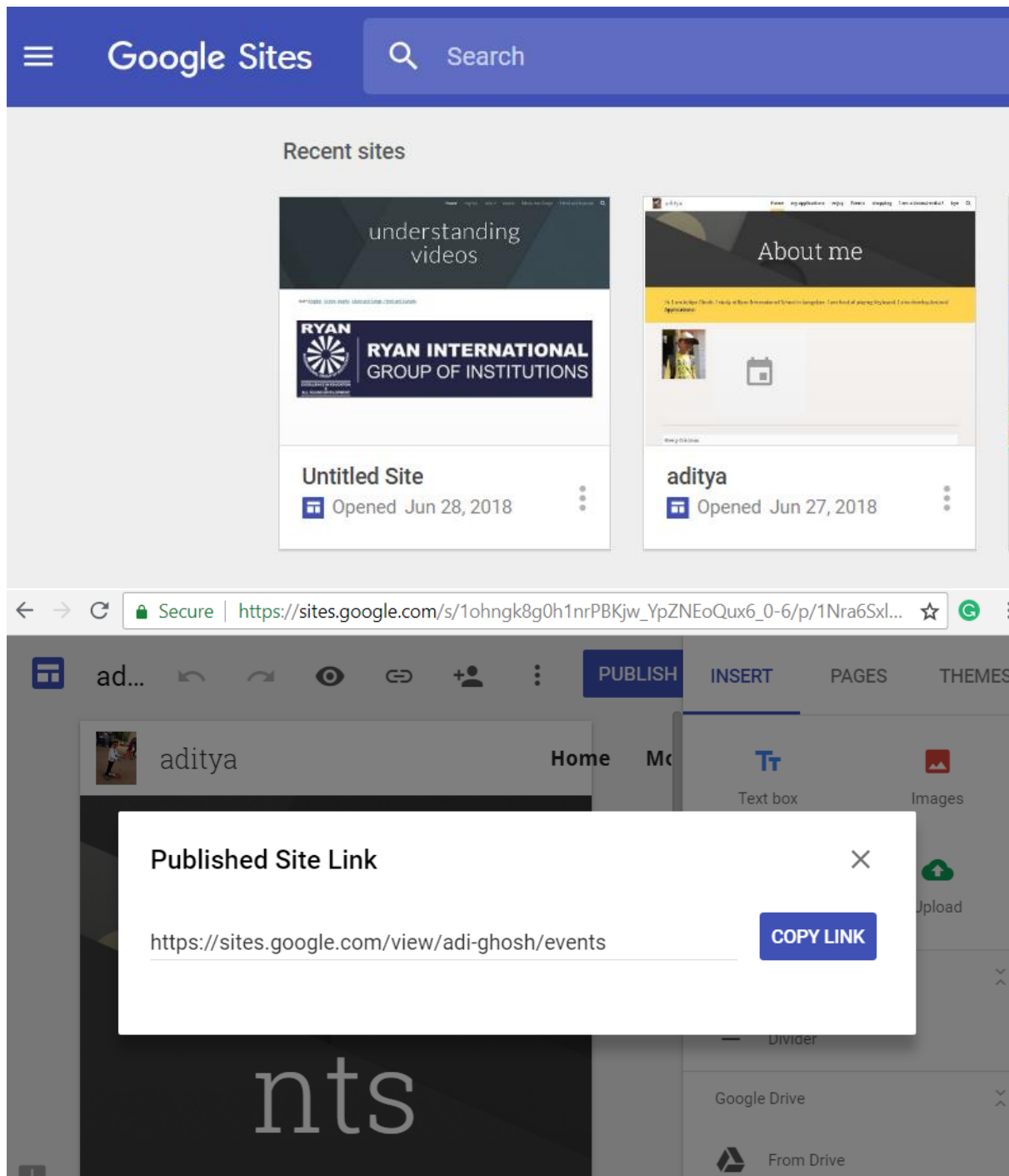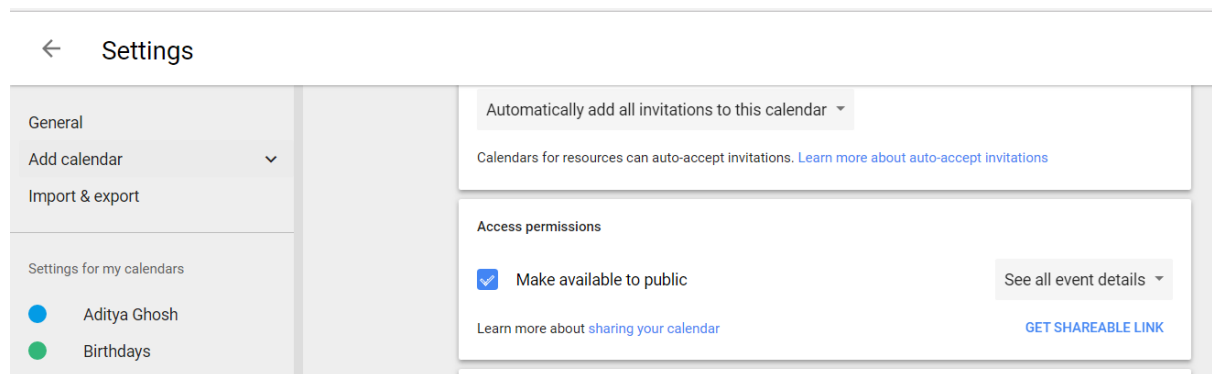
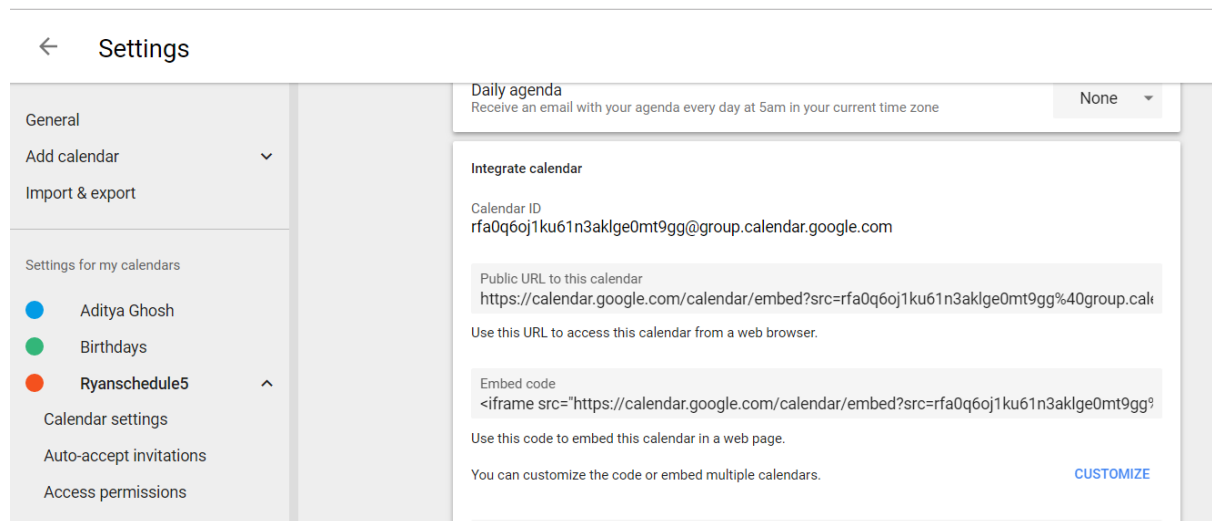# Get HTML code for Google Calendar

Login to Google Calendar.

Select the Calendar and click on Settings and Sharing

Make the calendar Public

Under Integrate Calendar go to Customize

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Customise settings as below.

Copy the HTML Code and update the GitHub Webpage Schedule.html

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Finally build the apk file

The apk package file is available for download in Google drive