Agenda Inked VERSION: 1.0 DATE: 01/17/2023

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KEY FEATURES

- Interactive calendar database to store school's information
- List of upcoming events
- Attendance reporting only accessible to parents
- Bug reporting to enable continuous development
- Twitter integration to allow for a social aspect to our application
- Updated lunch menu, provided by the administration, to increase meal-time efficiency

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App Repository:

https://github.com/helemzh/2023mobileappdev

This application is programmed using HTML, CSS, JavaScript, and Java through Wappler.

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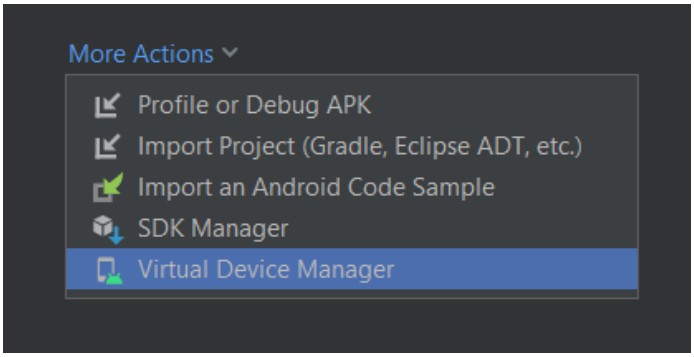
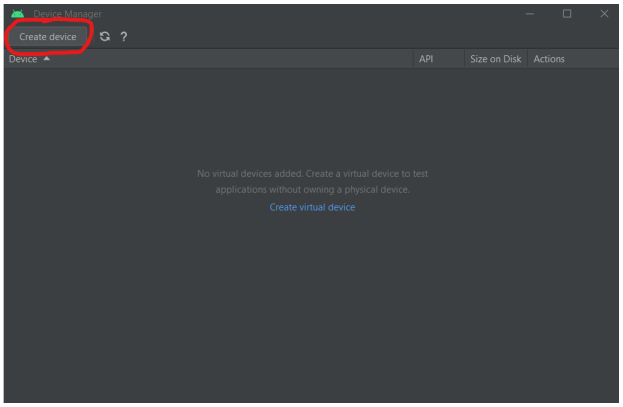
INSTALLATION INSTRUCTIONS (Mac OS and Windows computers)

1. Download Android Studio.
2. Download the ZIP file provided.
3. Unzip the file, and download the **app-debug.apk**. Move it to your main computer drive.

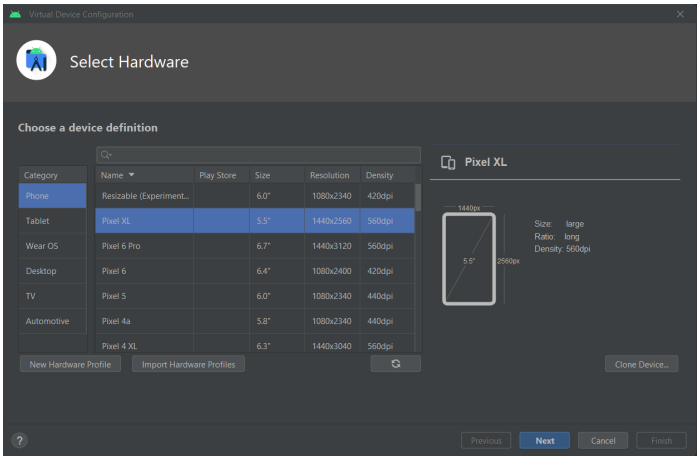
   If you have an Android phone, you can skip the emulator steps.
4. Open Android Studio and select 'More Actions' on the home page. Select 'Virtual Device Manager.'



   a. Click the 'Create device' button in the upper left.



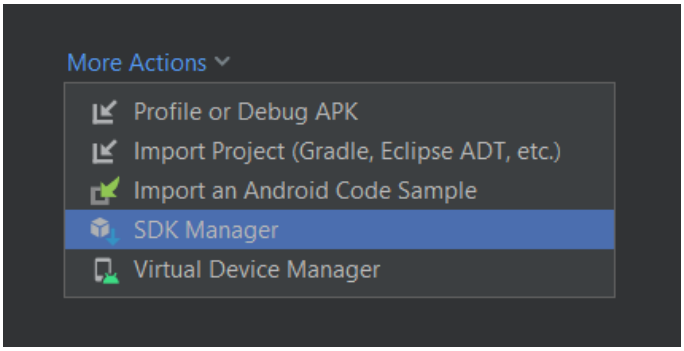
   b. Select the 'Pixel XL' and click the next button.



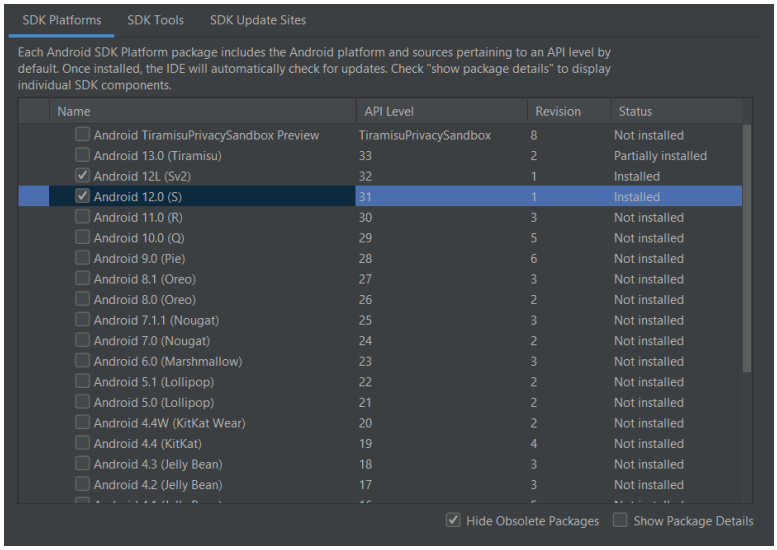
c. Click the download icon next to the ‘S’ with API Level 31, follow the directions, then click next.

d. Finish.

5. Select ‘More Actions’ again and select ‘SDK Manager.’

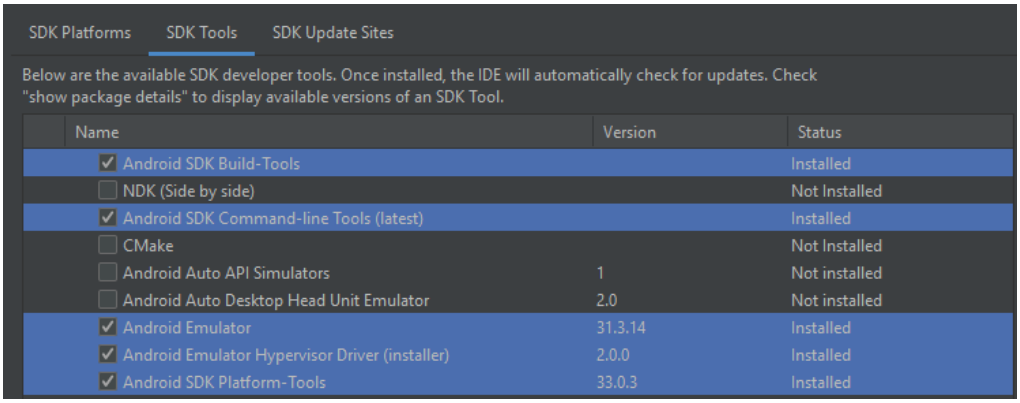


a. Under the SDK Platforms tab, check the box next to ‘Android 12.0 (S)’ with API Level 31.



b. Download and apply.

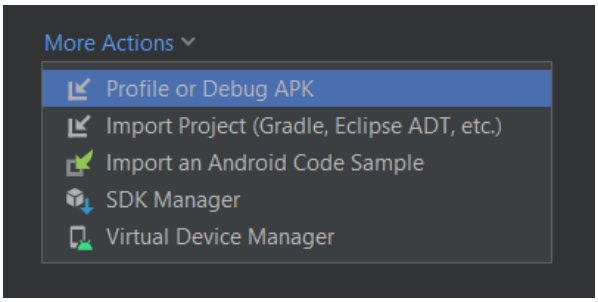
c. Under the SDK Tools tab, make sure the highlighted tools are checked.



You may only need to download ‘Android SDK Command-line Tools (latest).’

d. Click OK to download.

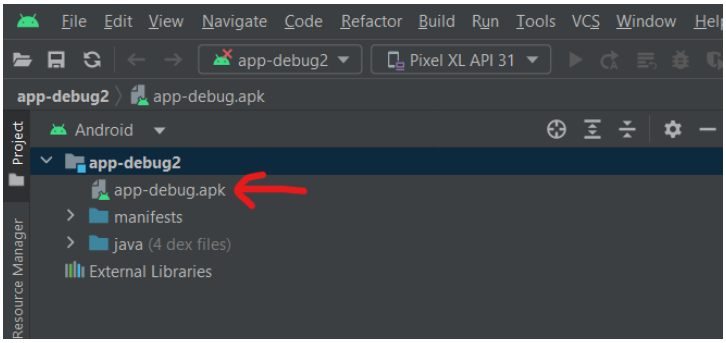
6. Select ‘More Actions’ again and select ‘Profile or Debug APK.’



a. Select the **app-debug.apk** file from where you moved it to in step 3. Click OK.

7. Open the Device Manager  at the top toolbar. Select the 'Pixel XL API 31' device you created. Under the Actions tab, click the play button (leftmost button) for the downloaded Pixel XL emulator. Wait for the emulator to load until the following screen is shown.

8. Find the **app-debug.apk** file located on the left.



9. Drag the **app-debug.apk** onto the phone. The notification 'app-debug.apk installed' should popup. Wait for it to load, it may take a couple of minutes.

10. Use the mouse and left click to swipe up on the emulator. Find the app named ‘helloworld’ and select it to launch the app.

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All images and text used were created by the team, or from the Public Domain. We utilized the open source framework, Framework 7, and open source run-time Capacitor.

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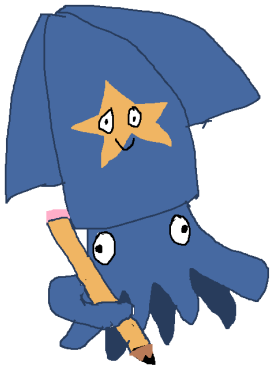
PLANNING PROCESS

Main goal: Create an app that allows students, parents and teachers to be kept up to date.

Project Management

- Agile: separated tasks in a non-linear format that allows each team member to work on a portion of the app separately
    - Daily online-meetings to review progress, assign tasks, and evaluate
    - Utilizing one main shared document so that all members of the team can view the planning and documentation
- MVP: blocking the project into required portions and optional portions for efficient time-management

Creating the brand



Logo

“Ink/Inked” → squid & pen/pencil

Ocean color scheme

Since the app is for a school environment, we decided that a fun mascot such as a squid would be eye-catching. The pencil correlates to writing in an agenda.

Name: Agenda Inked

- Agenda → school planner
- Inked → inc. (Play on words)

Complimentary colors

Hex codes -

#FC945C

#FGC48E

#1D8698

#042054

Wappler

Finding a suitable app developer that contained interactive features and allowed us to edit the code directly. Our team did not have much previous background in mobile app development, however we have experience in web development. A “low-code” application such as Wappler fits our needs perfectly which is a main factor for choosing to code using HTML and CSS instead of coding languages such as Java or Swift.

Deciding what needs to be in the app

- Dashboard
    - Agenda
    - To do/ Important announcements
    - Allows for students to see upcoming events and items needed to be done for specific classes
- Lunch menu
    - Administration recommended that we add a lunch menu in our application for more efficiency in the lunch lines
- Social media integration: **Twitter**
    - Allows students, teachers, and parents to see pictures shared by others
    - Easy format for mobile viewing (vertical scrolling)
- Attendance form
    - Parents can easily access the form to be able to let the school know that their child will not be in school.

- Parent password to prevent students from accessing the form

Initial Wireframe

- Created during the planning phase
- Layout of the different pages and navbar