

# TEKHUB

- Presented By -

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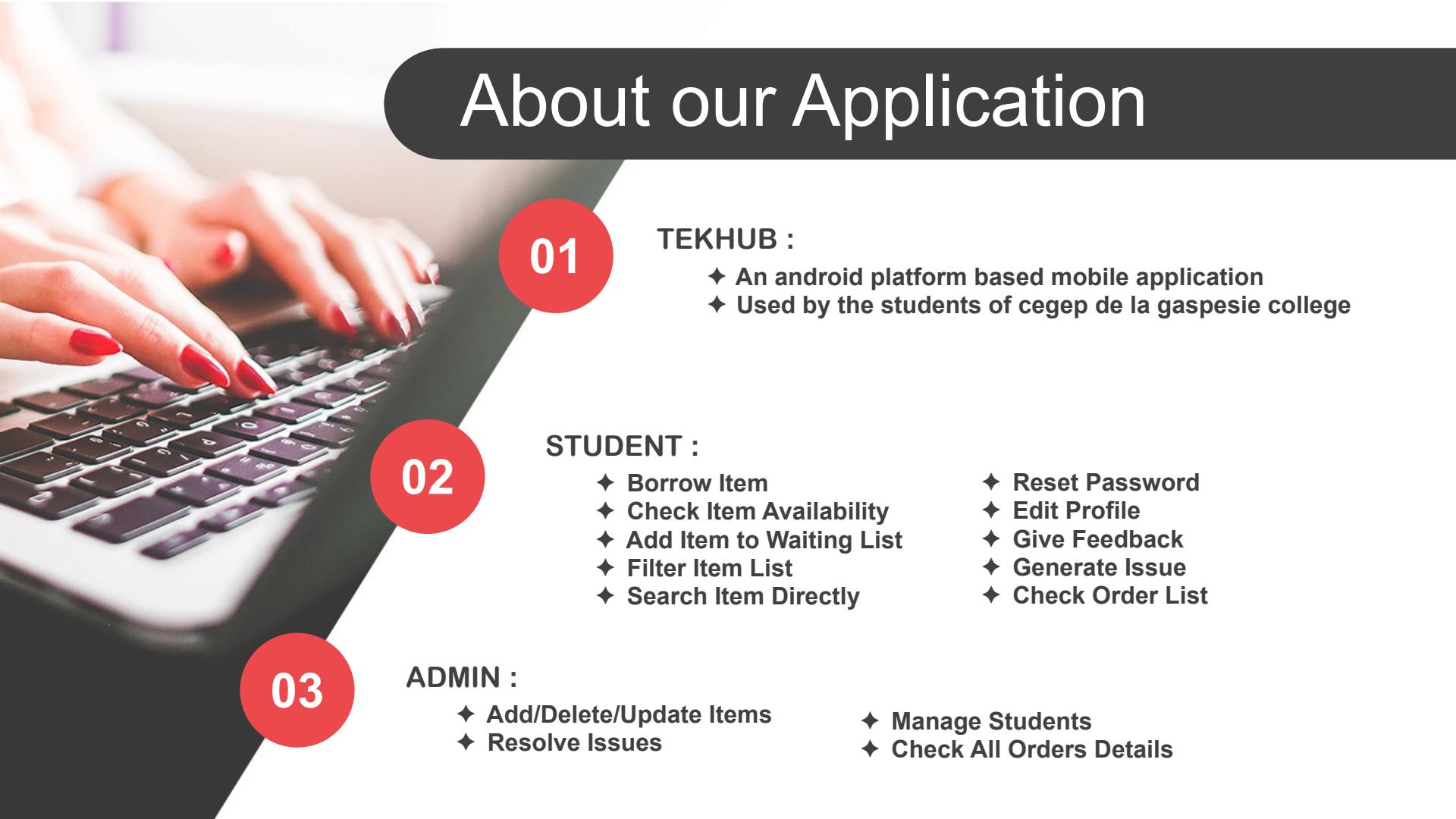
Kamaldeep Singh (1894836)

Sony Mathew (1895268)

Asma Rokadiya (1895321)

Abdul Wahid (1894461)





# About our Application

01

## TEKHUB :

- ◆ An android platform based mobile application
- ◆ Used by the students of cegep de la gaspesie college

02

## STUDENT :

- ◆ Borrow Item
- ◆ Check Item Availability
- ◆ Add Item to Waiting List
- ◆ Filter Item List
- ◆ Search Item Directly
- ◆ Reset Password
- ◆ Edit Profile
- ◆ Give Feedback
- ◆ Generate Issue
- ◆ Check Order List

03

## ADMIN :

- ◆ Add/Delete/Update Items
- ◆ Resolve Issues
- ◆ Manage Students
- ◆ Check All Orders Details

# Deep Into TekHub

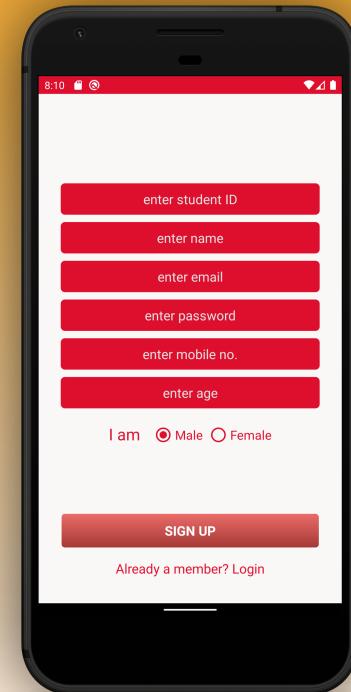
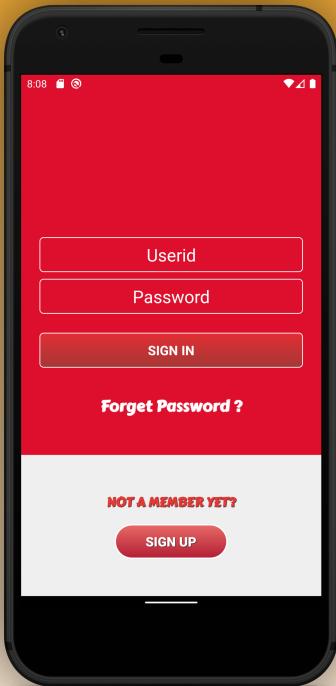
WITH SCREEN VIEWS

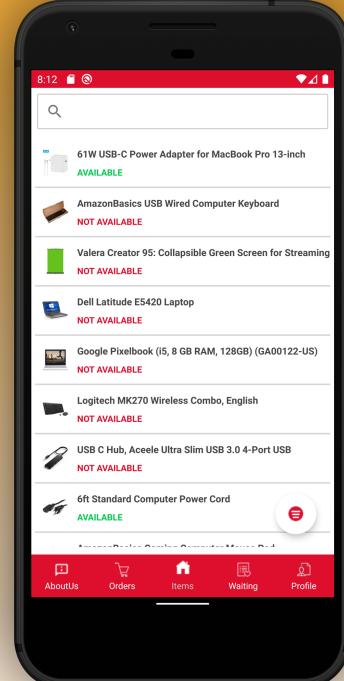
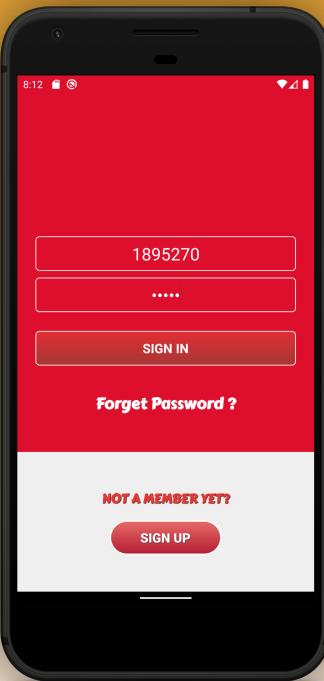
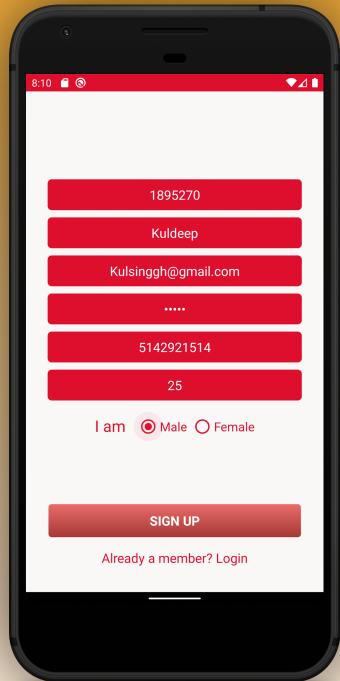


**LENDING SYSTEM**

# Register and SignIn

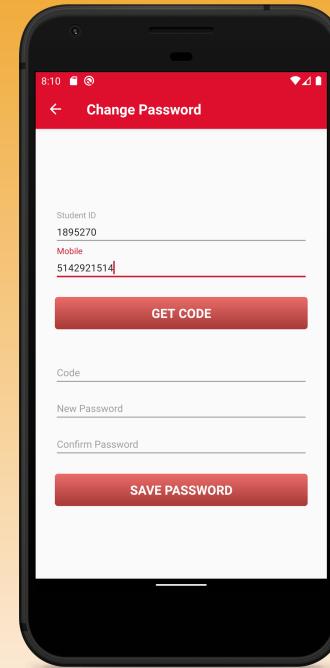
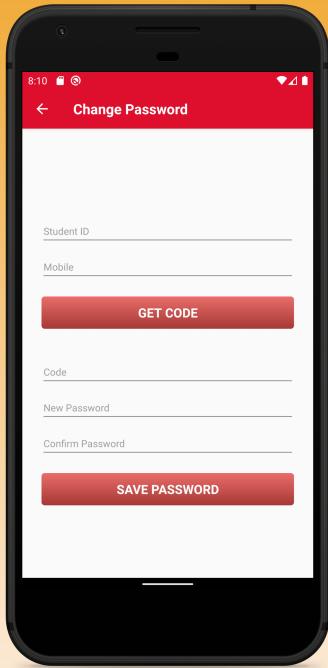
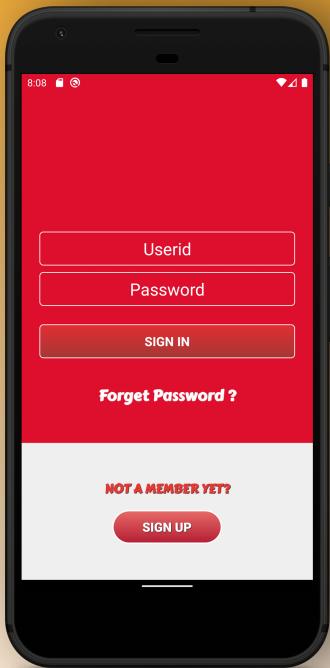
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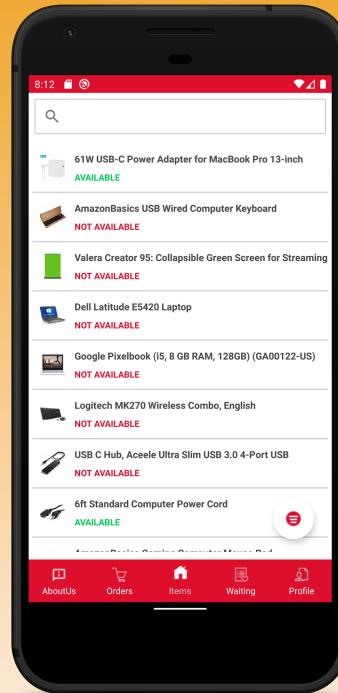
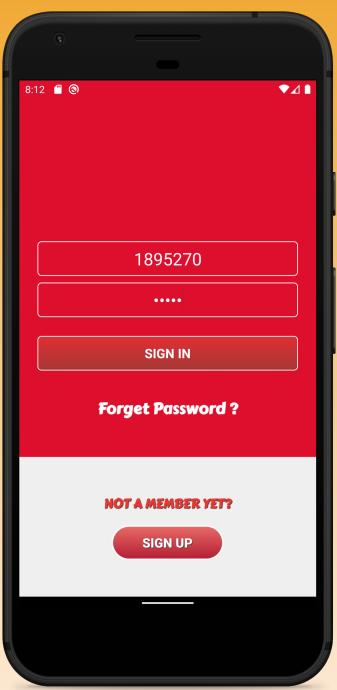
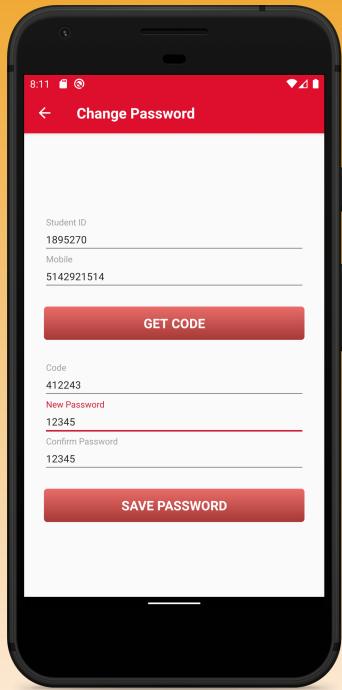




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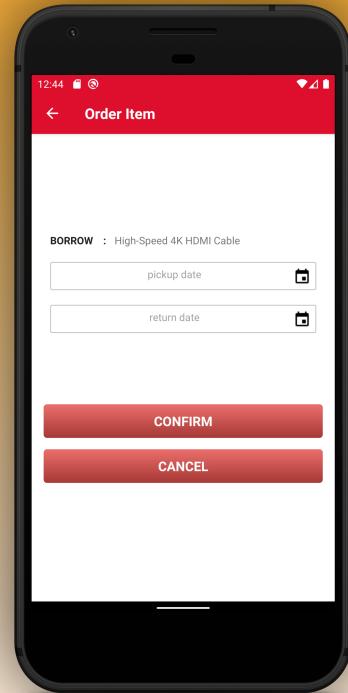
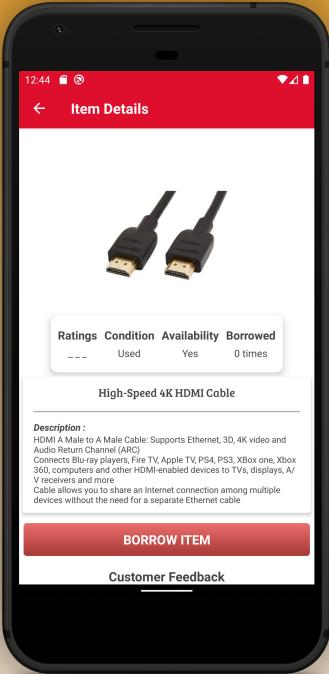
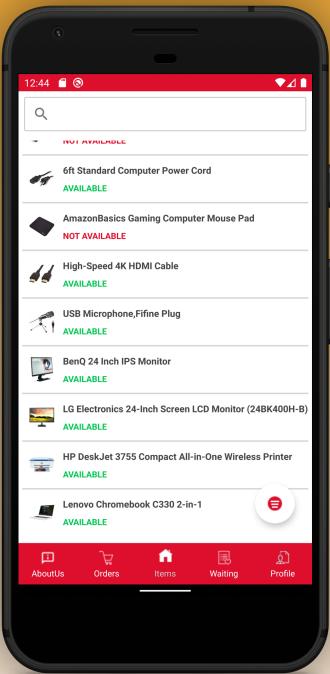
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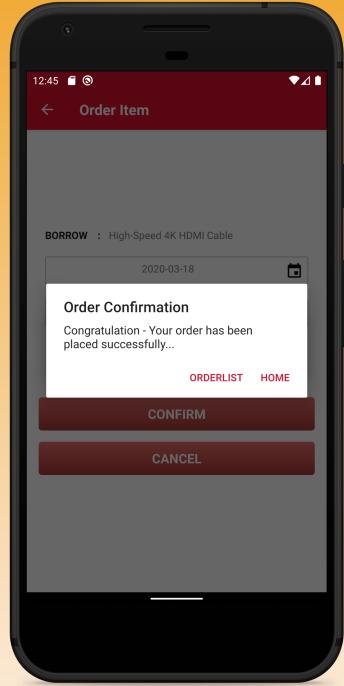
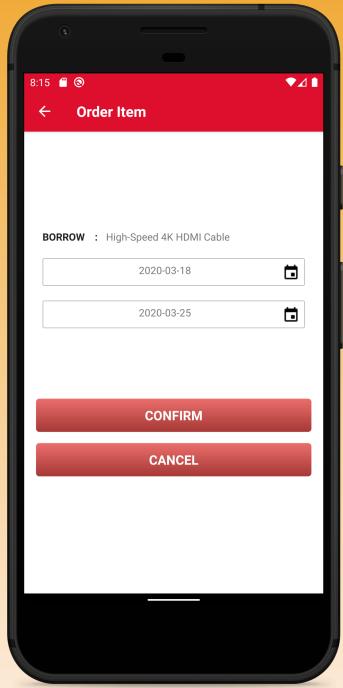
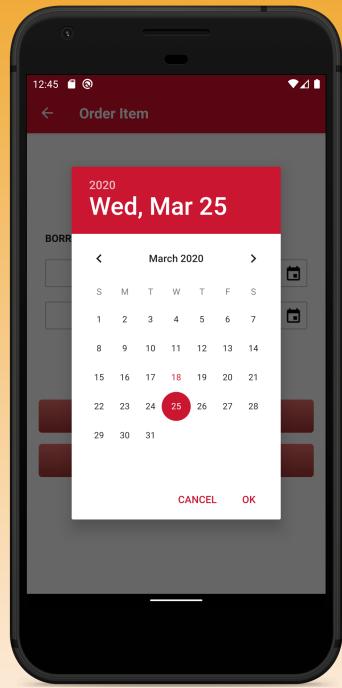




# Borrow Item

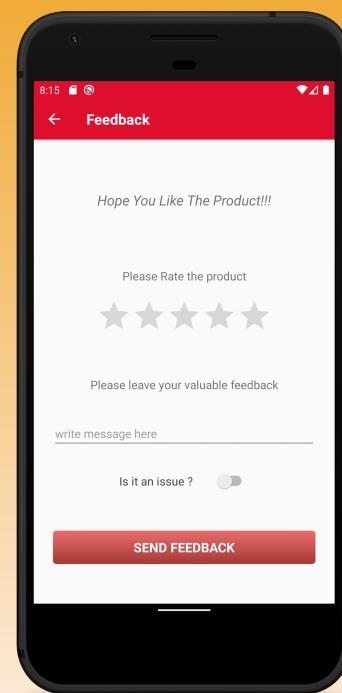
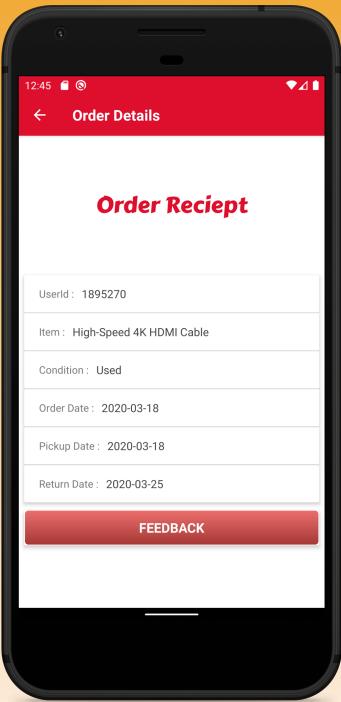
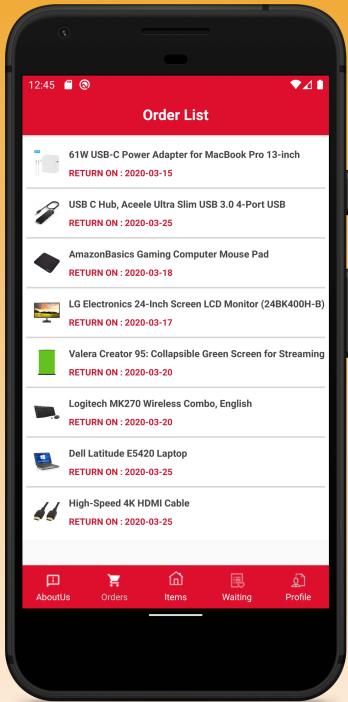
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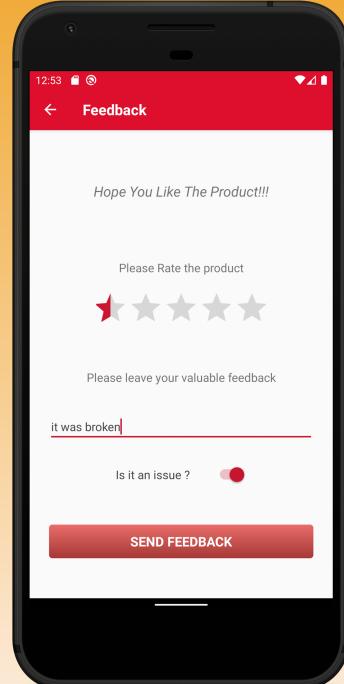
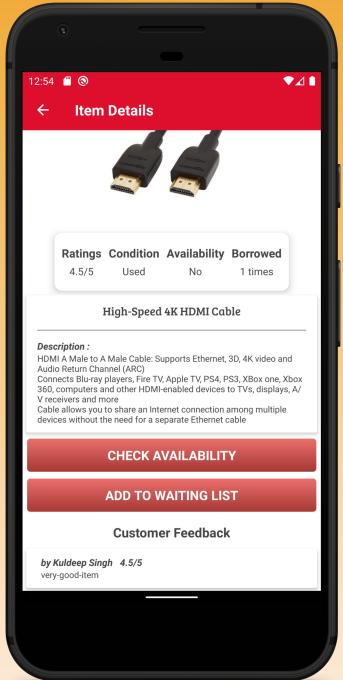
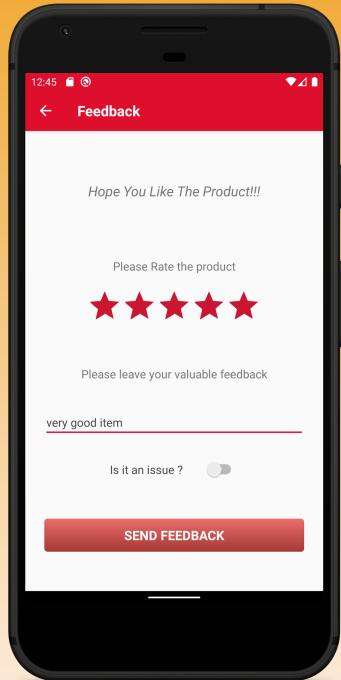




# FeedBack and Issue

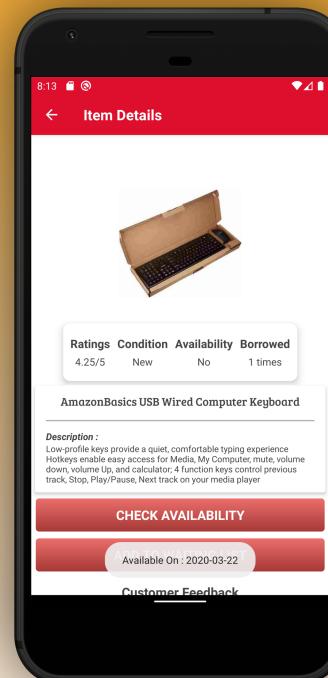
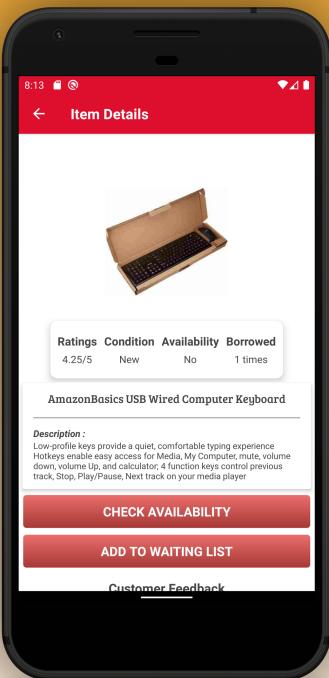
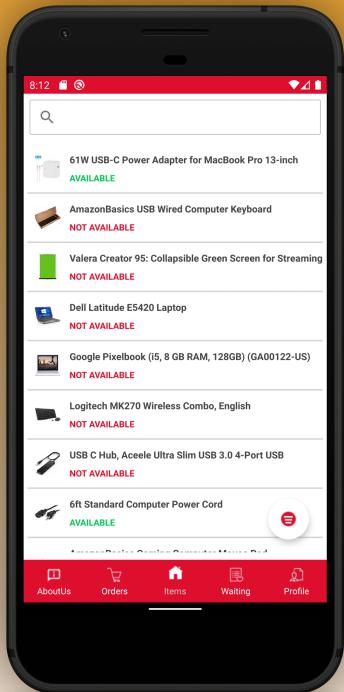
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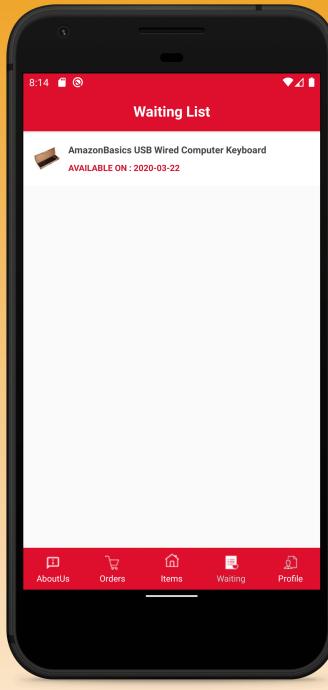
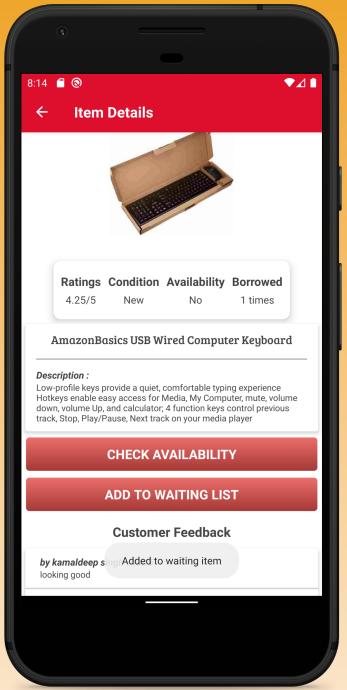




# Add to Waiting List

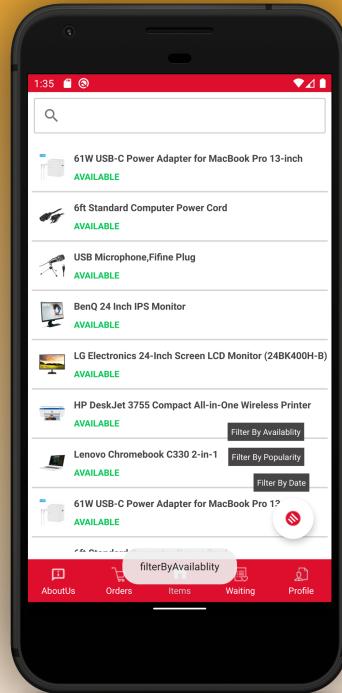
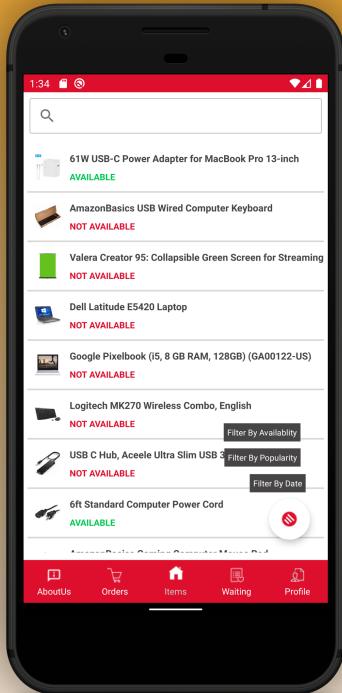
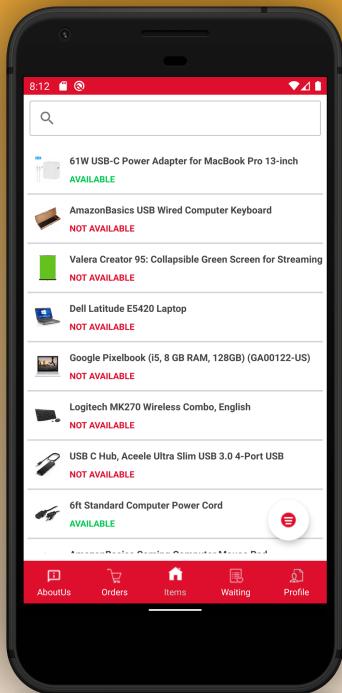
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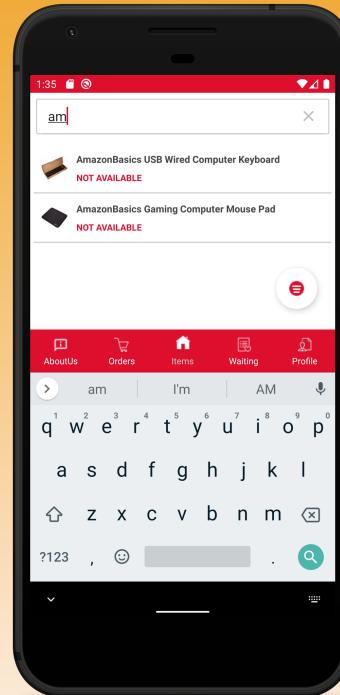
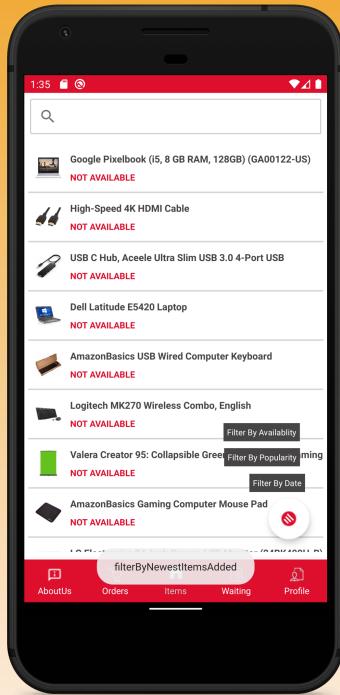
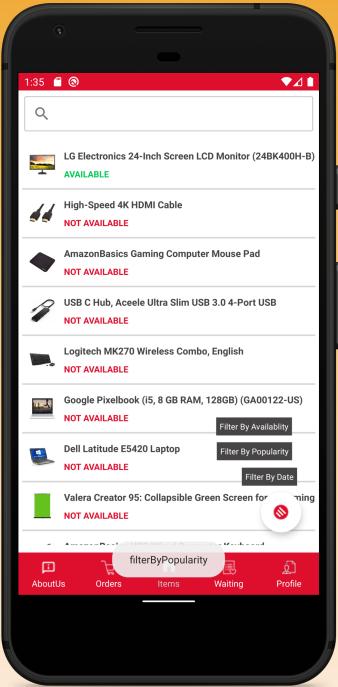




# Search and Filter Items

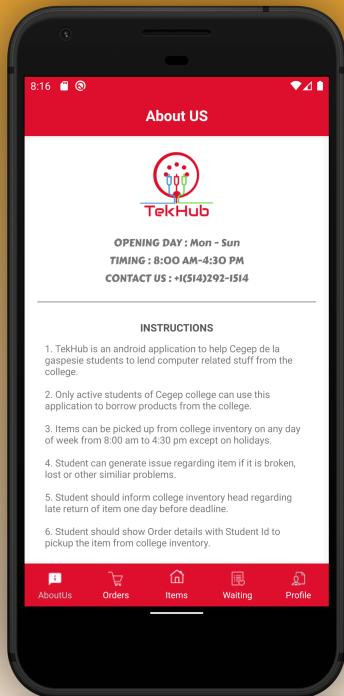
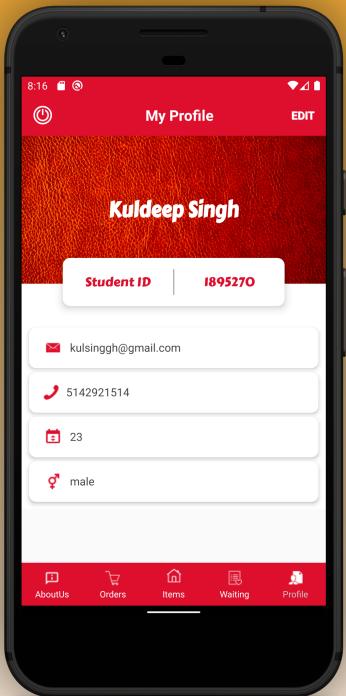
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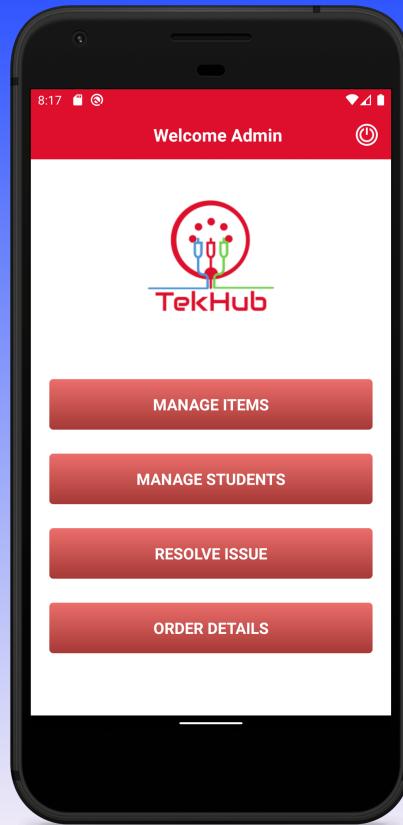


# Profile and AboutUs

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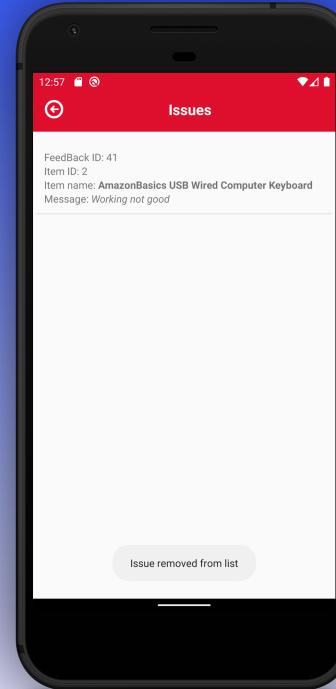
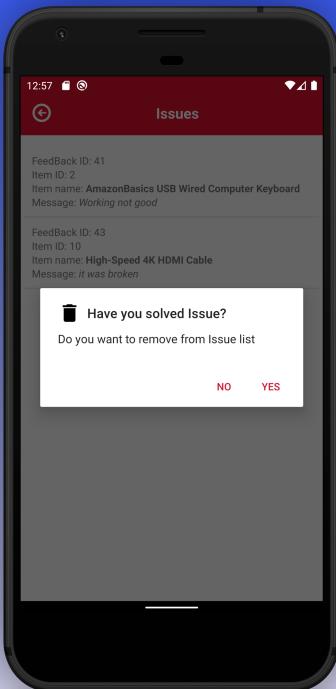
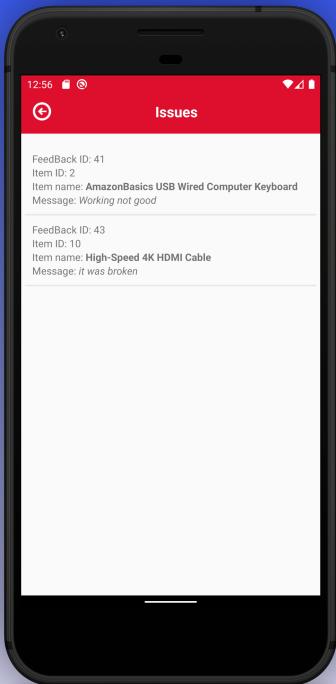


# A D M I N



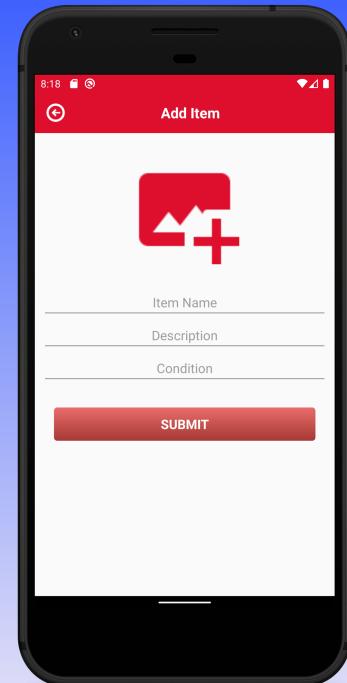
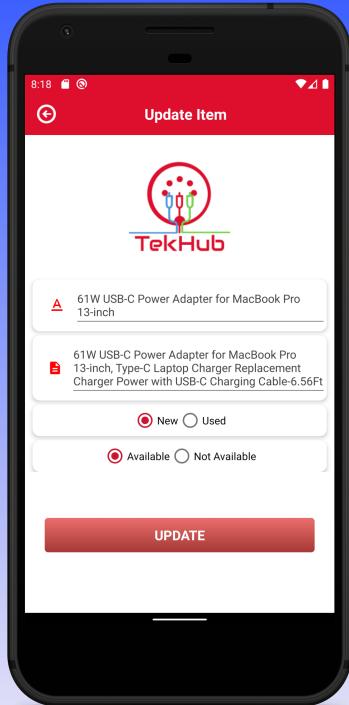
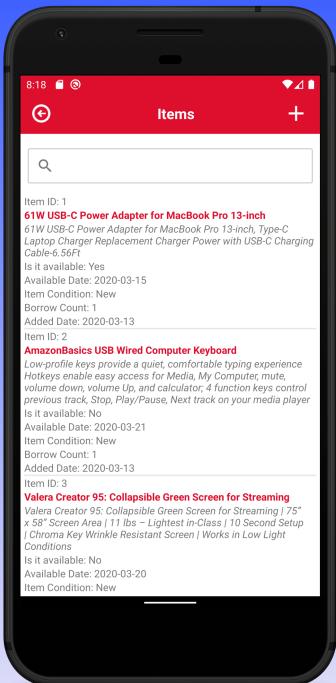
# Resolve Issue

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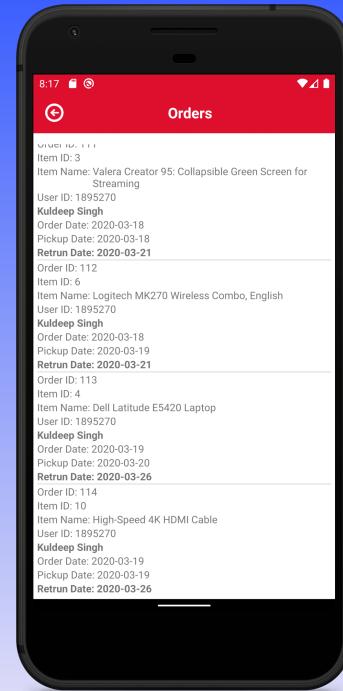
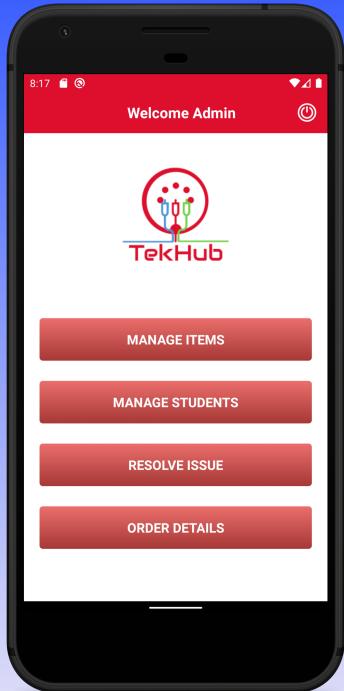
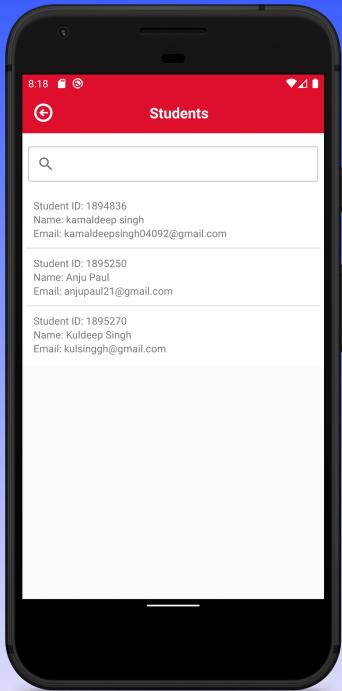
# Manage Items

2



# Student and Order List

3



# Engine behind **TekHub**

Tools - Technologies - Libraries



## Editors

Android Studio 3.5.3  
NetBeans IDE 8.0.2



## Database

Amazon RDS MYSQL  
db Instance



## Back End Technology

Java API for RESTful  
Web Services



## Libraries / Services

JSON, JDBC etc.  
Firebase SMS Verification

# Challenges

Hardest part of our application



1

→ Item Image upload directly from mobile/emulator internal memory and conversion of image resource to bitmap object bytes Array base 64 string and save to database.

2

Save and display current state of user when app is stopped or paused

3

Handle date-time difference between RDS database - server - android device/emulator. System time zone(Local) v/s Server time zone(UTC).

4

Integration of Firebase SMS Verification module

# Future of TekHub

## Future implementations of the application



Messaging service between students and admin.

Integration of online payment gateway to allow students to buy products from college or pay late return fine or other fines.

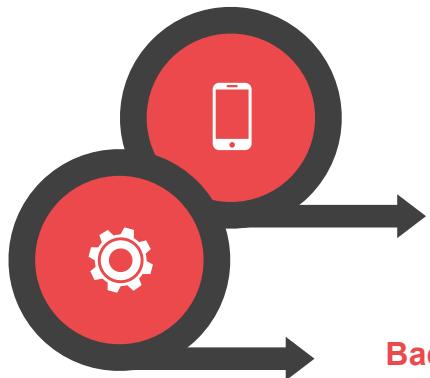
More filters for filtering the item list will be added.

Cross platform application to support both android and iOS platform based devices.



# Reference URLs

Github URLs



**Front-End** <https://github.com/Gilpix/TekHub>

**Back-End** <https://github.com/Gilpix/TekHub-WebCalls>



Thank You