CSIS 3175 – Section 001 Introduction to Mobile App Development Project Report

Group 2



App Name: Punch My Time

Bengisu Gelin

Description: Punch My Time is a tracker application focusing on part-time/temporary / on-call types of jobs. In our case worker is working with multiple employees on a contract based without a distinct schedule.

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1. App Name and Description

App Name: Punch My Time

Description: Punch My Time is a tracker application focusing on part-time/temporary / on-call types of jobs. In our case worker is working with multiple employees on a contract based without a distinct schedule.

2. Motivation of the App

Motivation of this app is helping people who don't have a distinct schedule. Especially student who work part-time or working in more than one place having hard time to keep track of their earnings. This app can assist them to manage their work hours, and track their earnings.

3. Technical concepts implemented

- Splash Activity (GIF)
- Takes User input to log in, get company information and get punch information, as well as user profile information.
- Spinner (to show companies added by the user, linked to db)
- Recycler view (to show the summary of punches)
- Some Calculations (computing total earnings, and total working hours with data from DB)

4. Technical Extensions

- Navigation drawer
- Time Picker, Data Picker
- Recycler view swipe left to delete.
- Alert dialog before deletion
- Database & CRUD operations with SQLiteOpenHelper
- Pie Chart (not added to the app)
- Mail sender for forgot password activity (not added to the app)

5. Screenshots of every screen

5.1. Splash Activity

Member Name	Work
Bengisu Gelin	Splash Activity using GIF image
Work D	escription
	app, splash activity has been selected as first activite GIF image, implementation was added to the grad
Related Layou	ıts & java classes
SplashActivity (Java)	activity_splash (layout)
drawable (punch.gif)	-Intent to main activity
Visual Explana	tions of the work
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5.2. User Login Activity

5.2. Oser Login Activity		
Member Name	Work	
Bengisu Gelin	Main Activity (User Login)	
Work Description		
User login activity Layout was created. User inputs were linked to the database in order to check if the username and password is matches, if yes, login to the app when clicked Login button. New user and forgot password texts were made clickable so that user can connect to different activities.		

Related Layouts & java classes MainActivity(Java) Activity_main(layout) Intent to home, new user and forgot password activities Visual Explanations of the work

Add new user activity Add new user activity Login after checking the credentials

5.3. Home Page Activity

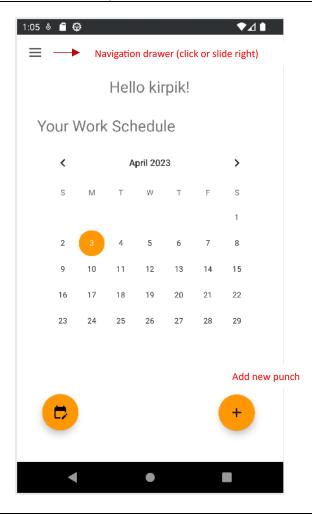
Member Name	Work
Bengisu Gelin	Home Page

Work Description

Home page of the app. Welcomes the user and gives options on what to do. If the user wanted to add a new hour, they can click on the floating button located in the bottom right corner of the app. The User can reach the navigation bar for more options.

Related Layouts & java classes	
HomePageActivity(Java)	Activity_home_page(layout)
NavigationBar	Intent to add new punch
drawable	

Visual Explanations of the work



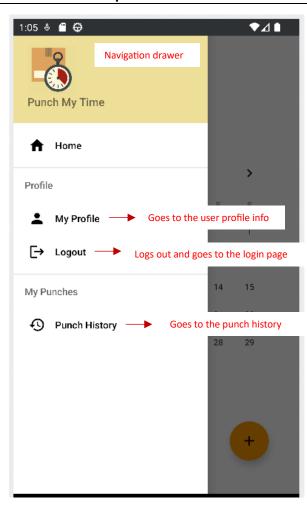
5.4. Navigation Drawer

Member Name	Work	
Bengisu Gelin	Navigation Drawer	
Work Description		

In the navigation drawer, 3 different groups were created namely, Home, Profile, and My Punches groups. Profile group has two items: My Profile and Logout. When the user clicked on My Profile, they will be directed to the user profile activity. When logout is clicked on, the app will return to the login page. In the My Punches group, if the user clicked on the punch history item, they will go to the punch history activities. In order to create this feature, a menu layout, and navigation header layout were created. Then they were merged into the activity home page through the home page activity java class.

Related Layouts & java classes		
nav_drawer_menu (Menu)	nav_header (layout)	
HomePageActivity(Java)	Activity_home_page(layout)	
	Intent to user profile, user login, and punch	
drawable	history activities	

Visual Explanations of the work

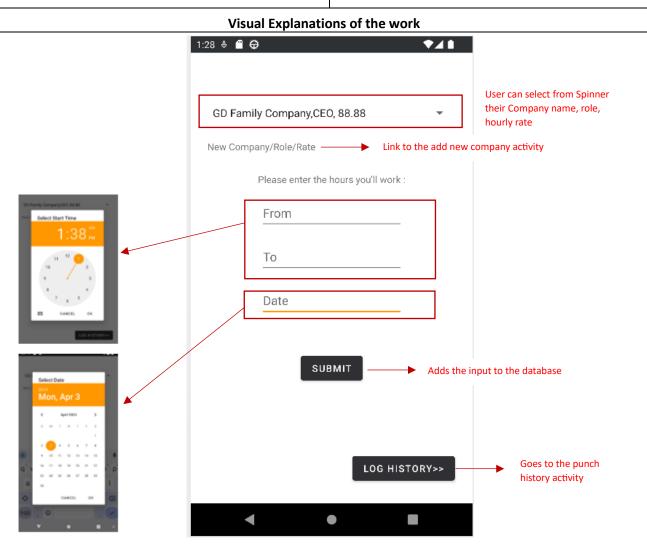


5.5. New Working Hours Activity

Member Name	Work	
Bengisu Gelin	New Working Hours	
Work Description		

As a first step, the user can choose the company for punching the time they worked. If the company is not entered, then the user can go to the add new company activity to add their new company by clicking the New Company/Role/Rate text. After choosing the company, they can enter the beginning & end hours and date of their work using timepicker and datepicker features. When the user clicked submit, punch will be written to the database. User also can go to the log history page to see their historical data and/or delete it.

Related Layouts & java classes	
NewWorkingHours(Java)	Activity_new_working_hours(layout)
DatabaseHelper(Java)	Intent to add new company, log history activities.



5.6. Add New company / Role/ hourly rate activity

	Work
	NewCompanyRoleRate
Work Description	1
-	te information to use it while the user wante when the user clicks add button, as well as t
ated Layouts & java	classes
ac	tivity_new_company_role_rate (layout)
	Intent to new working hours
ual Explanations of th	ne work
Company Name Role Hourly Rate	———► Input values given by the user
	company Name Company Name Role Hourly Rate

5.7. Punch History Activity

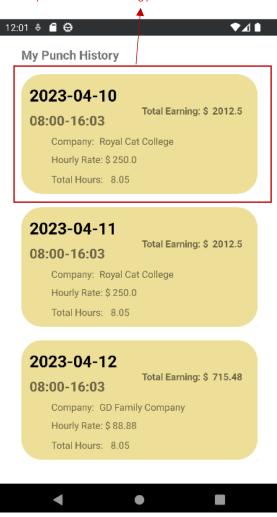
Member Name	Work	
Bengisu Gelin	Punch History	
Work Description		

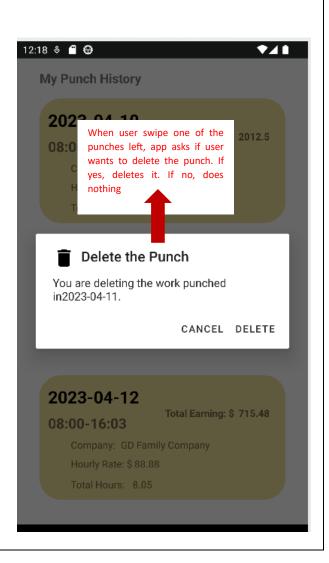
The main purpose of punch history is to show the punched work history to the user. To do it, the Date, start – end hours, company name, and hourly rate info are obtained from the database. Then, total hours and Total earnings were calculated. As a second feature, when the user swipes to left, the app will pop up an alert dialog to ask the user if they wanted to delete the swiped punch, if yes, it will be deleted from the UI as well as the database.

Related Layouts & java classes		
PunchLogsActivity (java)	Activity_punch_logs_activity (layout)	
DatabaseHelper(Java)	CustomAdapter (java)	
LogModel (java)	Log_recylerview(layout)	

Visual Explanations of the Work

Recycler view shows the summary of every punch. All data are being pulled from DB





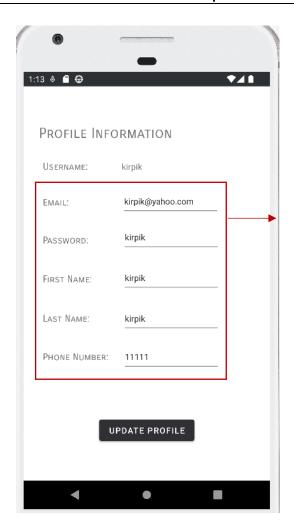
5.8. Profile Info Activity

Member Name	Work			
Bengisu Gelin	See and update profile info			
Work Description				

The page retrieves the data that the user entered when they signed up to the app, through new user activity. On this page, information added in the new user activity will be read from the database to show the user their info, as well as allow them to change it if they need to update their information.

Related Layouts & java classes				
ProfileInfoActivity (java)	Activity_profile_info(layput)			
DatabaseHelper(Java)	UserModel(java)			

Visual Explanations of the work



Profile information coming from Database. If user wants to change any of their info (username excluded), they can change it and when they clicked update button, it will be changed in database.

5.9. Database Implementation

Member Name	Work			
Bengisu Gelin	Database			
Work Description				

In order to create the database, Database helper class was created. In this class, all the database-related methods were implemented. First, punchmytime.db was created. Then, inside this database, 3 tables were designed as My_punchtime_user table, my_punchtime_company table and my_punchtime_logs table. Using SQLite commands, all tables were created. Meanwhile, for these tables, three different classes, userModel, CompanyModel and LogModel were also created. After this, CRUD operations were implemented in the database helper class. Adding a new user, new company, and new log methods; reading the user table, company table, and log table method, deleting log table methods, update the user profile method were created.

Related Layouts & java classes				
DatabaseHelper(Java)	UserModel, CompanyModel,LogModel(java)			
HomePage Activity	Main Activity			
New Company role Rate Activity	New user register activity			
New working hours activity	Profile info activity			
Punch logs activity				

Visual Explanations of the work

