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Timetable

Description

Timetable is simple and easy application to take notes, manage courses and auto calculate your Grade Point Average (GPA).

This app will not only keep you informed about your upcoming classes, but also reminds you of exams and unfinished homework.

Intended User

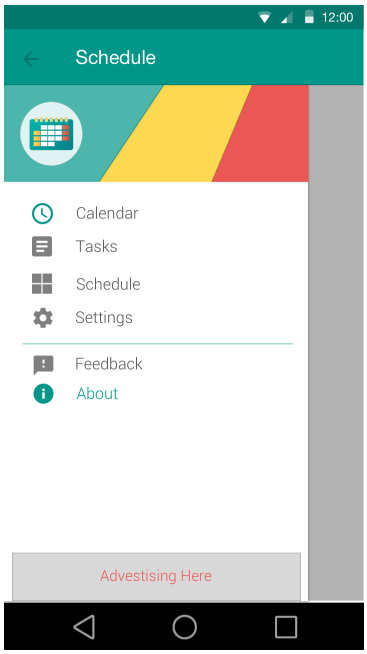
For Students, and perhaps Teachers will be supported in the future.

Features

- Manage courses, teacher, tasks and upcoming events. Save your exams, assignment and recording lessons.
- Capture anything to the exams, assignment too easy. Easy search a exam by name, title, date or due time.
- Auto calculate your Grade Point Average (GPA).
- Reminds you exams and unfinished homework. Notification for upcoming lessons note.
- Easy backup and restore for your data.

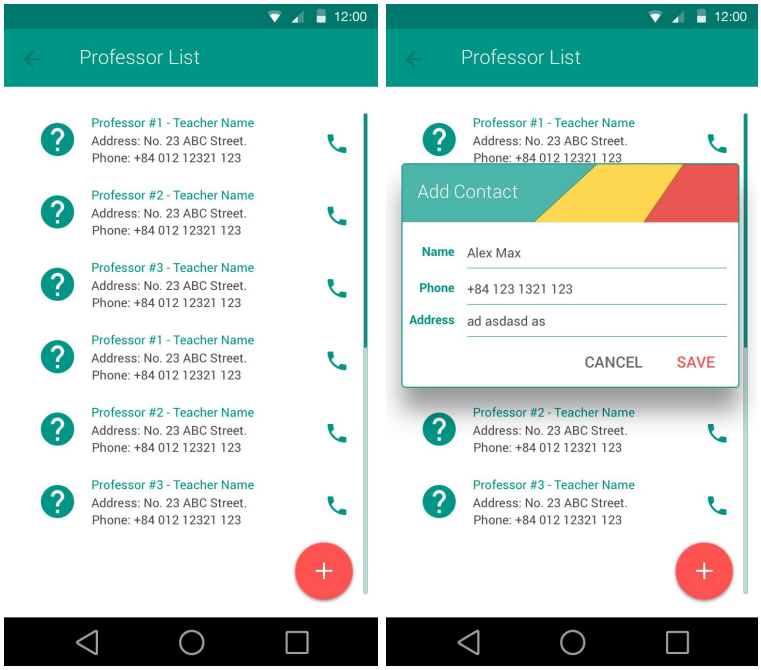
User Interface Mocks

Screen 1 - Sliding Menu



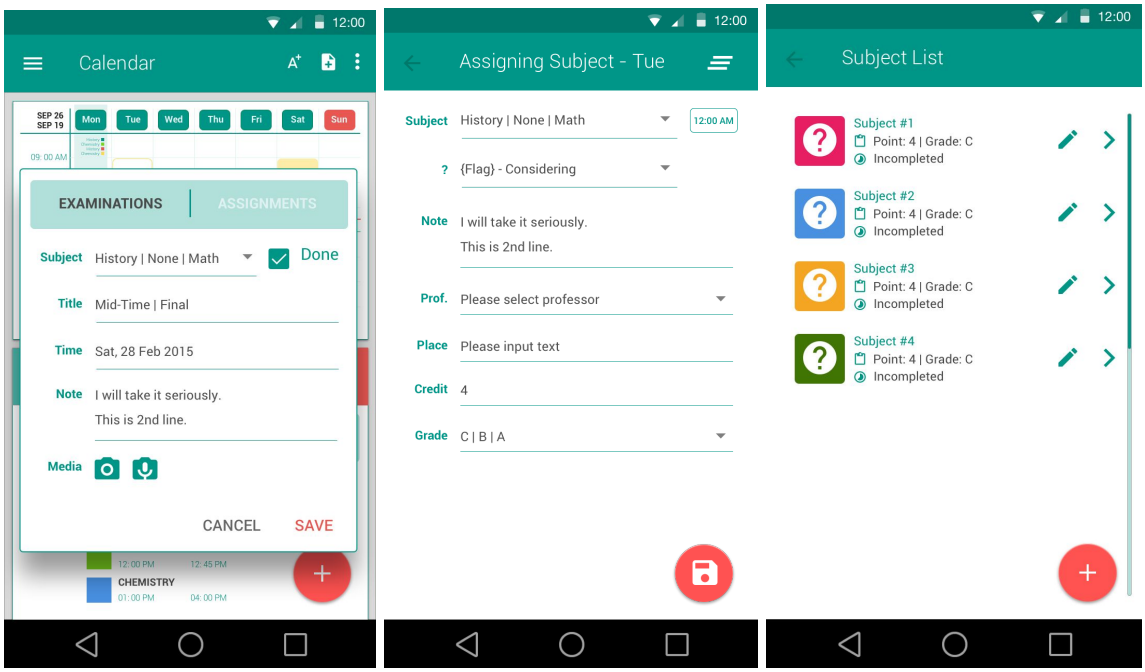
Navigation menu to be used to navigate to targeted functionality in the application. Likes “Calendar”, “Tasks”, “Schedule”, “Settings”, “Feedback” and “About”. To open by click on top icon of action bar or swipe manipulating left right by fingers.

Screen 2 - Teacher and Professor Management



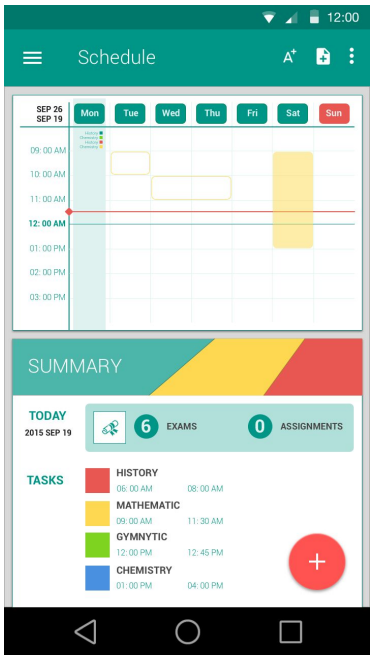
Manage teachers and professors. Support adding new, modify information and call to phone directly.

Screen 3 - Subjects, Lesson, Tasks and Exams Management



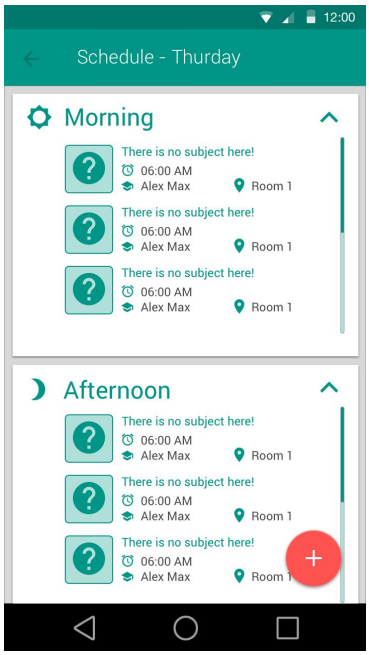
Manage subjects, lessons, tasks and exams. Support adding new, modify information and recording memo by voice and camera capture image.

Screen 4 - Calendar & Summary



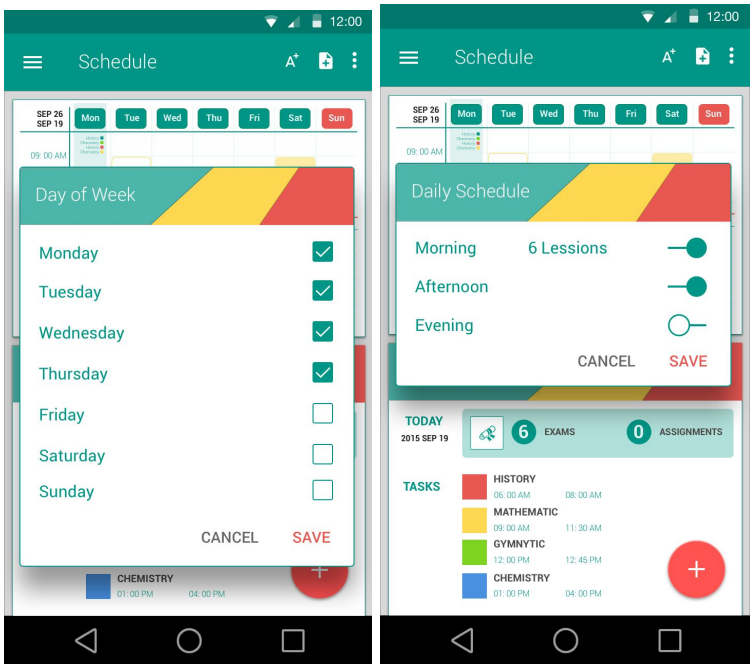
List up all events, tasks and lessons in calendar view. Get quick information today in summary section.

Screen 5 - Daily Schedule



Schedule daily in 3 sections: Morning, Afternoon and Night with subject list inside.

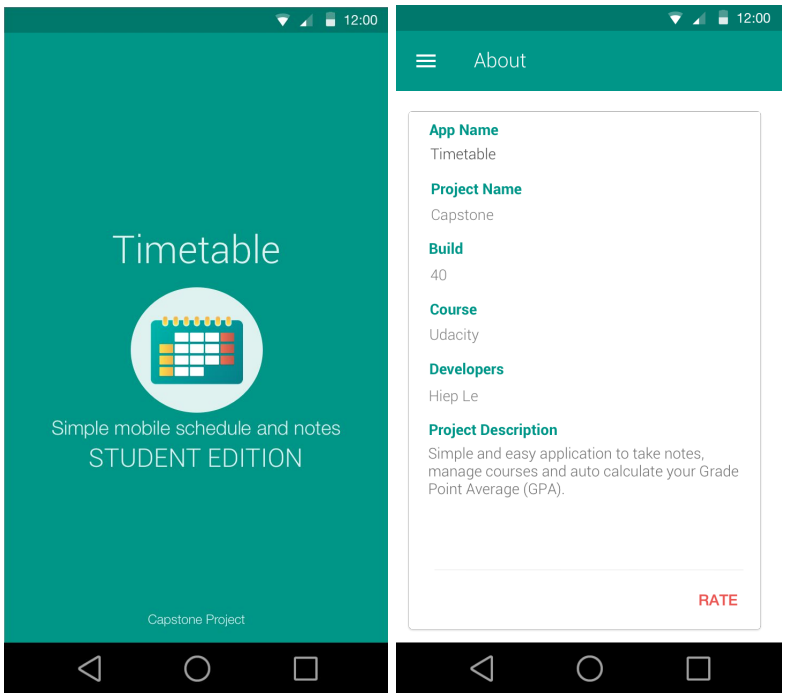
Screen 6 - Schedule Setup



Setup day of week and period time for studying daily.

Others Screens

- Welcome (Splash), About, Social Sharing, Widget, Help & Feedback, Settings.



Show more meta information about author, application and project.

Key Considerations

How will your app handle data persistence?

I will build a Content Provider with ORM libraries support SQLite.

Describe any corner cases in the UX.

Calendar & Summary screen may support expandable to show full height each card particularly.

Describe any libraries you'll be using and share your reasoning for including them.

- Picasso or Glide to handle the loading and caching of images.
- Android annotation for quick data and layout binding. Diet code writing for fast development.
- Google Play Service to support analytic, admob, authentication.
- AppCompat and Support for material design.
- Fabric Crashlytic for crash tracking.
- ORMLite for database mapping.

Required Tasks

Task 1: Project Setup

- Create project structure
- Configure libraries with gradle (Android Annotation, AppCompat, …)
- Gradle 2.0 to support instant run on Android Studio 2.0
- Download required Android SDK.
- Setup Virtual Device.

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for SubjectActivity
- Build UI for TeacherActivity
- Build UI for ScheduleActivity
- Build UI for ExamActivity
- Build UI for SettingActivity
- Build UI for Dialogs and Fragments relevant.

Task 3: Implement Database and handling Data Persistence.

- Implement Data Persistence by SQLite (SQL Writing in Code)
- Do Object Relation Mapping
- Implement Content Provider.

Task 4: Do Unit Test and Fix Bugs

- Test all flow
- Run findbugs plugin in Gradle.
- Also do review code and refactoring.
- Fix Bugs and re-test all flow.

Task 5: Publish App to Play Store

- Create keystore.
- Compile application with keystore.
- Upload to apk to Play Store
- Write description and meta info for application in store.
- Design promo and feature graphics.