GitHub Username: flaviokreis

Simple Timesheet

Description

Simple Timesheet is a time tracker and allows the user record your work's time with a simple push of a button. It is designed with simplified and optimized interface for smartphone and tablet devices.
Simple Timesheet allow manage projects, manage tasks and export your data to Microsoft Excel file.

Intended User

Simple Timesheet is designed so that workers can manage their hours worked on projects and tasks. It can also be used by students who want to manage study time.

Features

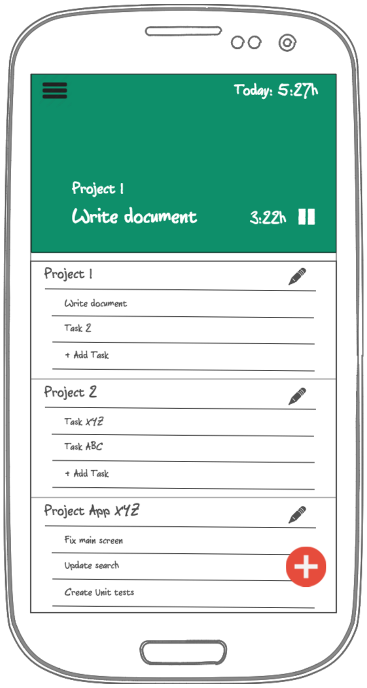
Simple Timesheet features:

- Manage projects;
- Manage tasks in projects;
- Start/Stop time for project/task;
- See played task on notification bar, and can stop;
- Show project's information: worked hours, earned;
- Designed by smartphone and tablets;
- Export your data to Microsoft Excel file;
- Configure currency, decimal symbol, date and show/hide notification;

User Interface Mocks

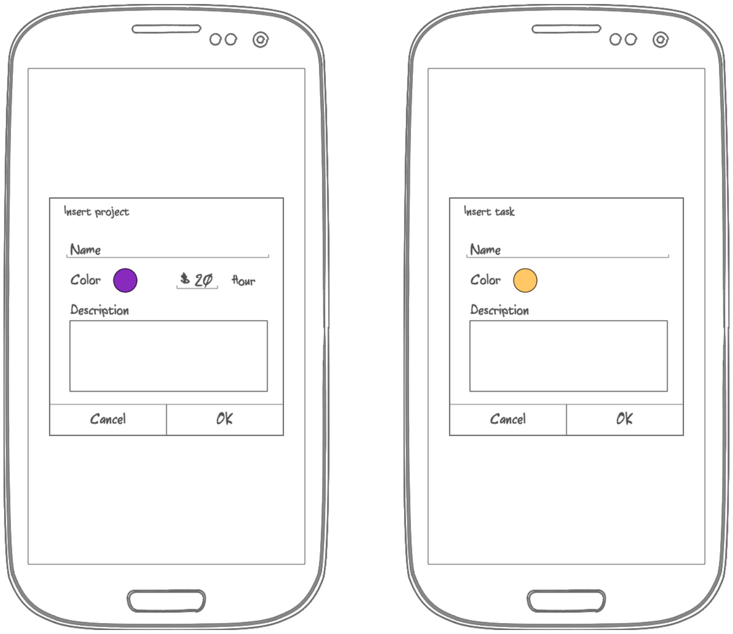
I created the interface mocks using NinjaMock.

Screen 1 - Projects and tasks



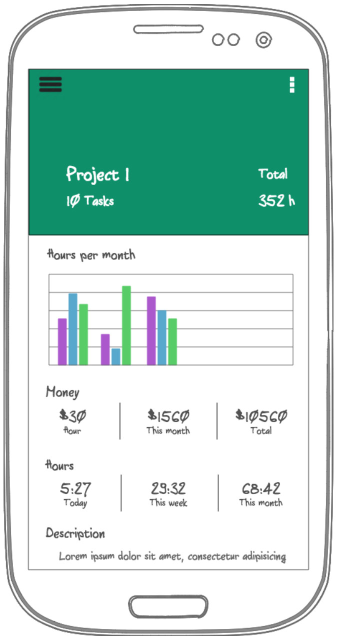
This is the main screen. The user can insert projects using the FAB button (Screen 2A), can insert tasks on + Add Task into project (Screen 2B).
If the user click on project or task, will be start a timer for this project or task.
If the user click in pause, the timer will be stop.
If the user click in project's pencil, will be to Project Details (Screen 3).
If the user long click on project on task, will be Edit or Delete.

Screen 2A and 2B - Insert project and task



The Screen 2A show the Add Project Dialog. The user can add project inserting the name of project, earn per hour, description, and selecting a color.
The Screen 2B show the Add Task Dialog, The user can add task inserting the name of task, description and selecting color.

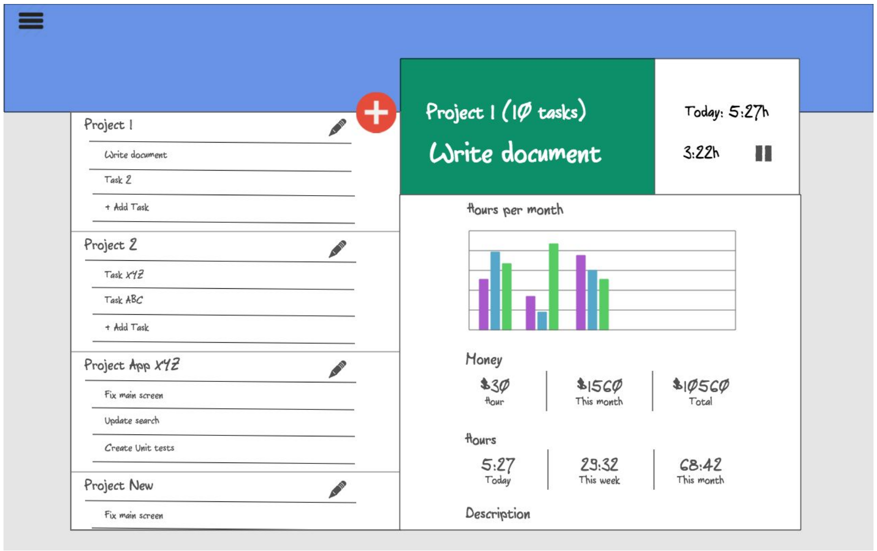
Screen 3 - Project details



The Project Details screen show information about the project.

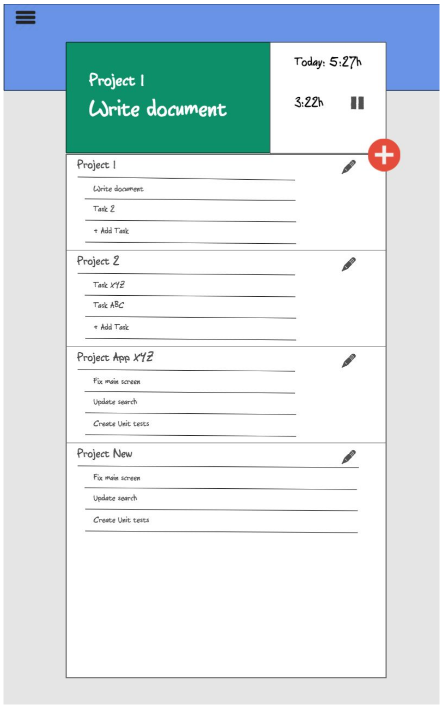
- Show a chart of hours worked per month;
- Show money per hour, this month and total;
- Show hours worked per today, this week and this month; and show the project description. On title show total of tasks and total of hours worked in this project.

Screen 4 - Main Screen, Tablet Landscape



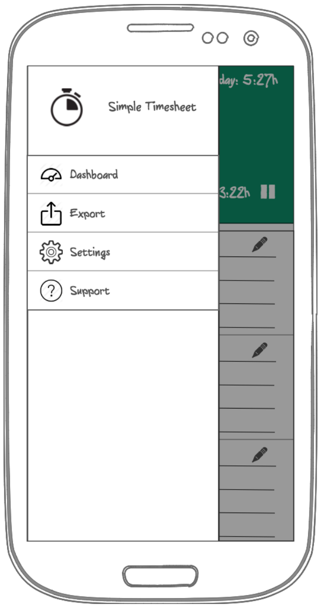
If the user open Simple Timesheet in your tablet in landscape mode, the user will see the list of project and tasks (Screen 1) and the project details (Screen 3) together.

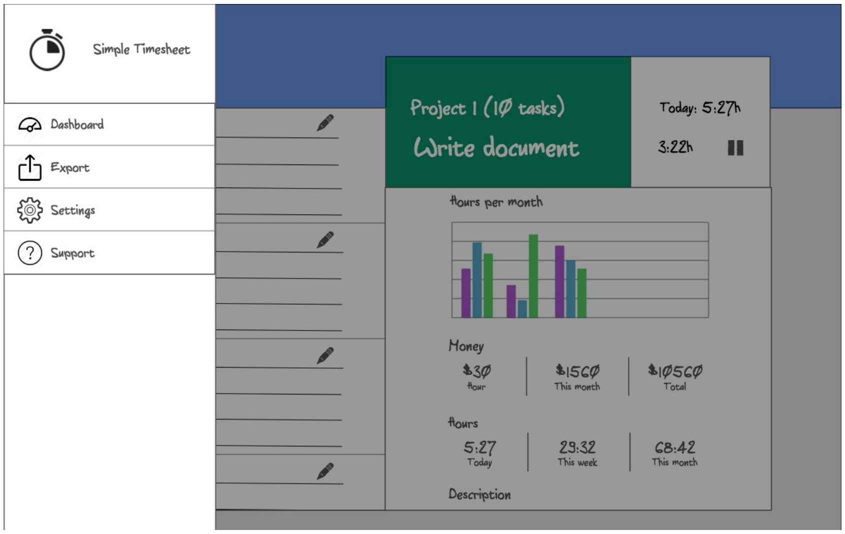
Screen 5 - Main Screen, Tablet Portrait



If the user open Simple Timesheet in your tablet in portrait mode, the user will see the list of project and tasks (Screen 1), but optimized for tablet.

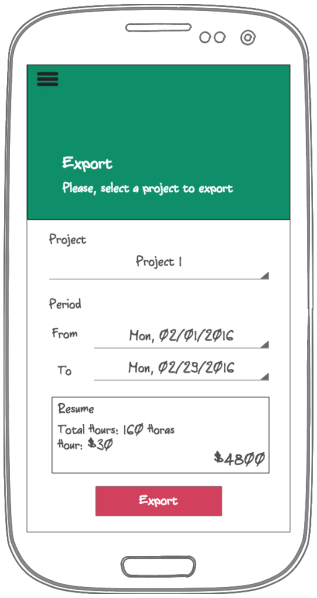
Screen 6 - Drawer menu





The user can access Dashboard, export, settings and settings via Drawer menu. The Support option directs the user to the native email application.

Screen 7 - Export



Project: Project 1

Period

From: Mon, 02/01/2016

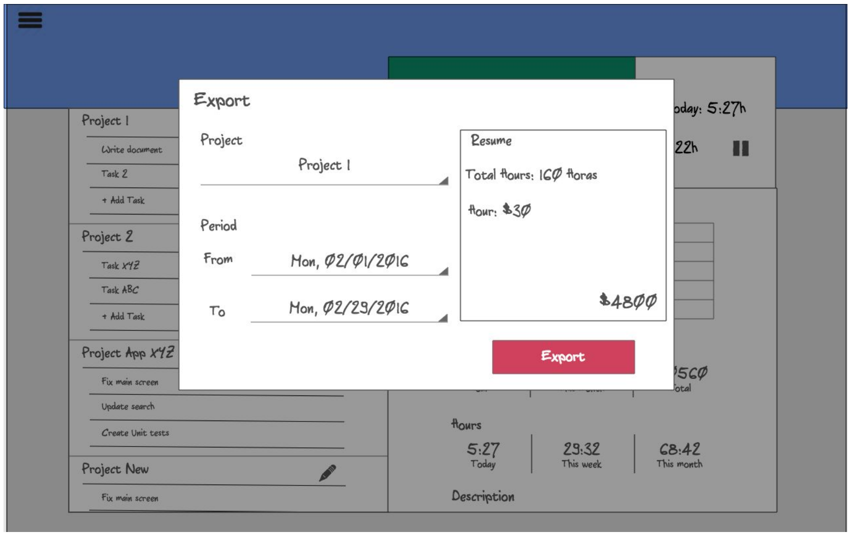
To: Mon, 02/29/2016

Resume

Total Hours: 160 Horas

Hour: $30

$4800



Export

Project: Project 1

Period

From: Mon, 02/01/2016

To: Mon, 02/29/2016

Resume

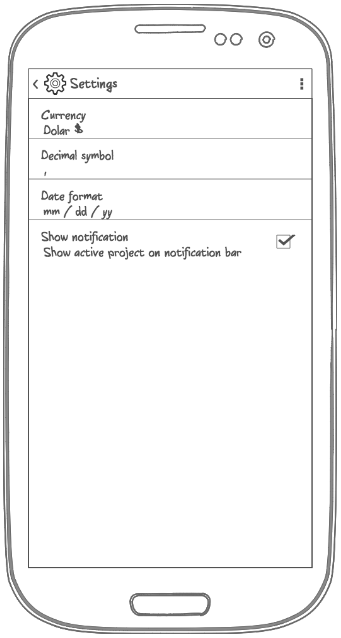
Total Hours: 160 Horas

Hour: $30

$4800

The user can export your data to Microsoft Excel file, selected a project and period of date.

Screen 8 - Settings



Settings

Currency
Dolar $

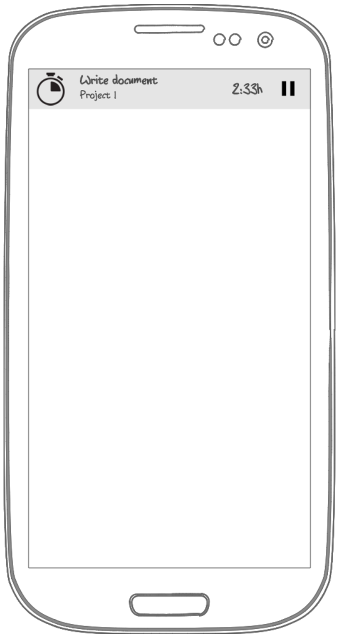
Decimal symbol
,

Date format
mm / dd / yy

Show notification ☑
Show active project on notification bar

The user can change settings: currency, decimal symbol, date format and show/hide notification.

Screen 9 - Notification



Write document
Project 1
2:33h

If user select "Show notification" on Settings (Screen 8), and play a project or task, the user will see a notification, and can pause the timer.

Key Considerations

Build a Content Provider and MySql database to save data for Project, Task and Time data.
The Project table will be: _id, name, value_hour, description, color, inserted_date, updated_date;
The Task table will be: _id, id_project, name, description, color, inserted_date, updated_date;
The Time table will be: _id, id_task, started_time, ended_time;

Save settings and preferences on Shared Preferences;

When user start application in the first time when user start the Simple Timesheet, on Main Screen (Screen 1), show the user a message to create the first project, and create the first task.

When user start a timer, the user can close the application and verify the timer progress on notification.

The user only can export with have any project.

The Export Screen will be show all screen on smartphone, and as dialog on tablet.

For export data to Excel, I will use JExcelApi.

For show Hours Worked chat, I will use MPAndroidChart.

Required Tasks

Task 1: Project Setup

Start and configure the project:
- Create board on Trello to manage the project;
- Create and configure the project on Android Studio;
- Insert external libraries: JExcelApi and MPAndroidChart on Gradle;

Task 2: Implement UI for Each Activity and Fragment

Implement all screens:
- Build UI for MainActivity with drawer menu;
- Build UI for ProjectActivity;
- Build UI for CreateProjectDialog;
- Build UI for CreateTaskDialog;
- Build UI for ExportActivity;

- Build a Settings screen;
- Adapt all project to tablet;

Task 3: Build Content Provider

Create database:

- Build MySql database to save Project, Task and Time;
- Build Content Provider to Project;
- Build Content Provider to Task;
- Build Content Provider to Time;
- Build Shared Preferences to settings;

Task 4: Build Controller

Build data controllers:

- Build controller to Project;
- Build controller to Task;
- Build controller to Time;

Task 5: Build Export

Build export:

- Create code to convert data using JExcelApi
- Create code to save on disc or export;

Task 6: Build Notification

Create notification:

- Build notification and show active task;
- Build action start/stop on notification;