

Project Ideas

Note: Authentication is required by default.

Finance tracker

Personal finance tracker. You can record all your spendings and income to understand where does your money actually go.

Basic functions

- Transaction list (Add / Edit / Remove transaction functions)
 - Two types of transactions: income / expense
 - Each transaction should contain following data: amount, date, place (optional), comment (optional), image (optional).
- Categories for transactions (Add / Edit / Remove category functions)
- Statistics for user per period (month, year, week)
 - Total spendings (and per category)
 - Total income (and per category)

Examples: [ZenMoney](#), [Spendee](#)

Group expenses app

An application to manage group bills paid by one person.

Basic functions

- English and Russian language support (switch in header)
- Dashboard
 - Current balance (I owe, others owe me)
 - Recent payments
- Add expense:
 - total amount
 - photo (can be empty)

- participants (list with suggested names of people user already added to other transactions)
- split method (equal, particular amount)
- Edit / Delete expense
- Mark expense as 'repaid'

Example: Spliwise

Calendar

Time- and activity-management application. User can set appointments, tasks and reminders.

Basic functions

- Calendar view (year, month, week view).
- Days with appointments should be marked by colour of appointment (or multiple colours in case of more than one appointment)
- Upcoming appointment for current day / pending tasks are on top of the page
- Appointment creation
 - title
 - description
 - start / end date and time
 - place (may be empty)
 - zero, one or more reminders (user can type in when to remind)
 - color (to distinguish tasks)
- Task creation (tasks have a 'completed' status. After user marked task as 'completed', it will disappear from 'pending' section)
- Ability to edit / delete appointment or task

Examples: TickTick and well, any calendar.

Music player

Music catalogue / player application.

Basic functions

- Upload music track
 - set / update its title, performer name, cover image
 - assign one or more genres
 - attach lyrics to track
- User can perform a search across all uploaded music by all users
- Create / edit / delete / duplicate playlists

Examples: Yandex.Music, Spotify.

'Alias' game

A game in which players have to explain words to others.

Basic functions

- Word set management (CRUD)
- Word set selection (with example words from the set)
- Team management (define number of teams and set their names)
- Game settings (number of words, time for each player)
- Game process
 - swipe gesture word control
 - a page with stats after each player finish explanation
 - word status can be changed (guessed / skipped)
- Past games statistics

Examples: Alias

Online quiz

Realtime quiz application. After quiz is created and started, a unique code is generated for participant to join.

Basic functions

- Quiz creation
 - define a quiz name
 - define set of questions
 - question can have answer options for player or can be a freeform question (user must type in the answer)
 - set a time for each question
- Quiz execution
 - waiting phase with list of joined (via code) participants. Creator starts the quiz by pressing a button during this phase.
 - running phase - each participant sees a question and have time to give an answer
 - results phase - each participant can see quiz results

Examples: Kahoot!

File manager

Filesystem emulation using Firebase Cloud storage and Firestore or Realtime DB for directory emulation.

Basic functions

- Windows Explorer OR MacOS Finder-alike interface
 - buttons for common actions
 - adaptive button grid (depends on screen size) [ex1, ex2, ex3]
 - at least 3 icon organisation modes (table, list, grid)
 - right-click context menu
- Directory management (CRUD)
- Nested directories support

- File management (CRUD)
 - file preview (side panel or modal)
 - text files
 - images
- Drag and Drop support for files and folders

Examples: [Chonky.io](https://chonky.io)

Anki-like app

Online tool to learn something new.

Basic functions

- Home page with current stats and reminders
- Card collections (CRUD)
- Cards (CRUD)
- Spaced repetition algorithm

Examples: [Anki](https://ankiweb.net/), [Quizlet](https://quizlet.com/)

Song and lyrics DB

An application to store and discuss song lyrics.

Basic functions

- Music tracks (CRUD)
 - title
 - album
 - author
- Lyrics (CRUD)
 - each song can have one or more lyrics
 - author

- language (original or translation)
- user can select (with mouse or touch) a part of the text and add an annotation to it
- text parts with annotations should be highlighted in text, annotations are displayed near the text
- other users can rate lyrics and comments (upvote / downvote)

Examples: Genius

Cocktail database

A website, where user can share own unique cocktail recipe or rate cocktails created by others

Basic functions

- **Main feature: visualisation**
 - each cocktail should have a dynamically generated visual representation based on ingredients selected by user upon creation
 - glass form may be identical for all recipes
 - ingredients are hard-coded by developer (minimum 10 visually different ingredients)
 - each ingredient should have specific color or texture to display
 - order and proportion of ingredients affect visual representation
- Main feed with top-rated cocktails, their average rating and their images
- Cocktail constructor
 - name
 - description
 - recipe: an ordered list of ingredients with their volumes for this cocktail
- An ability to rate cocktails (1-5 stars rating system) and leave a comment

Examples: RateCoffee

Note: the same idea could underlie a meal constructor, for example

And many more...

Typing Game [Typing Club](#)

Color scheme constructor: [colorbox](#), [Adobe Color](#), [coolors](#)

Css-animation builder [keyframes](#)

Language-learning games: [Duolingo](#)

Time-management app: [ToDoist](#), [Trello](#)

Habit tracker app: [Productive](#), [Streaks](#)

Movie Seat Booking: [ByCard](#), [Silver Screen](#)

Puzzle Game: [gucci](#)

Interactive personal portfolio: [uixninja](#)