

Powellldoro C4 Diagram

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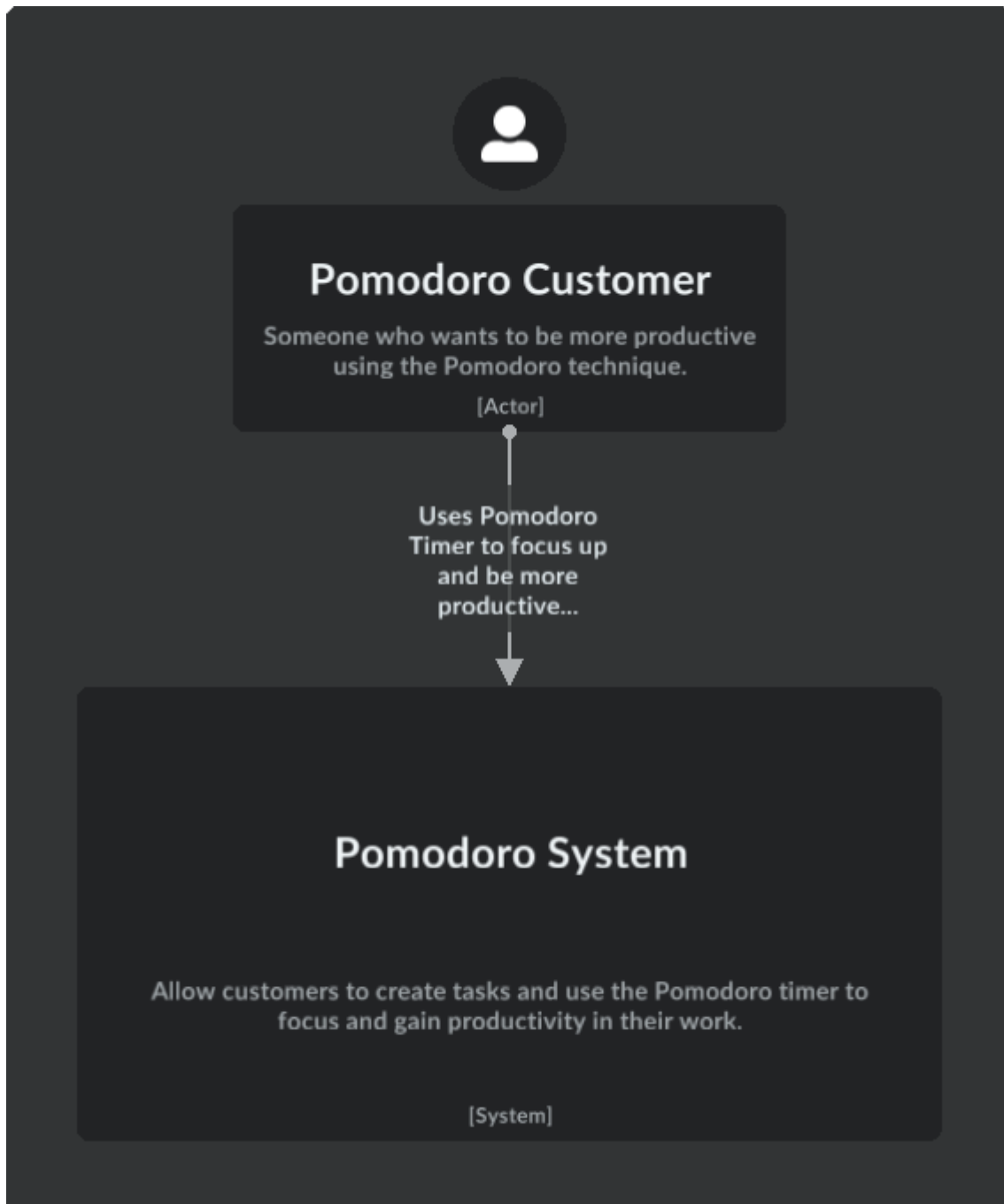
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1. Context diagrams

1a. Entry diagram



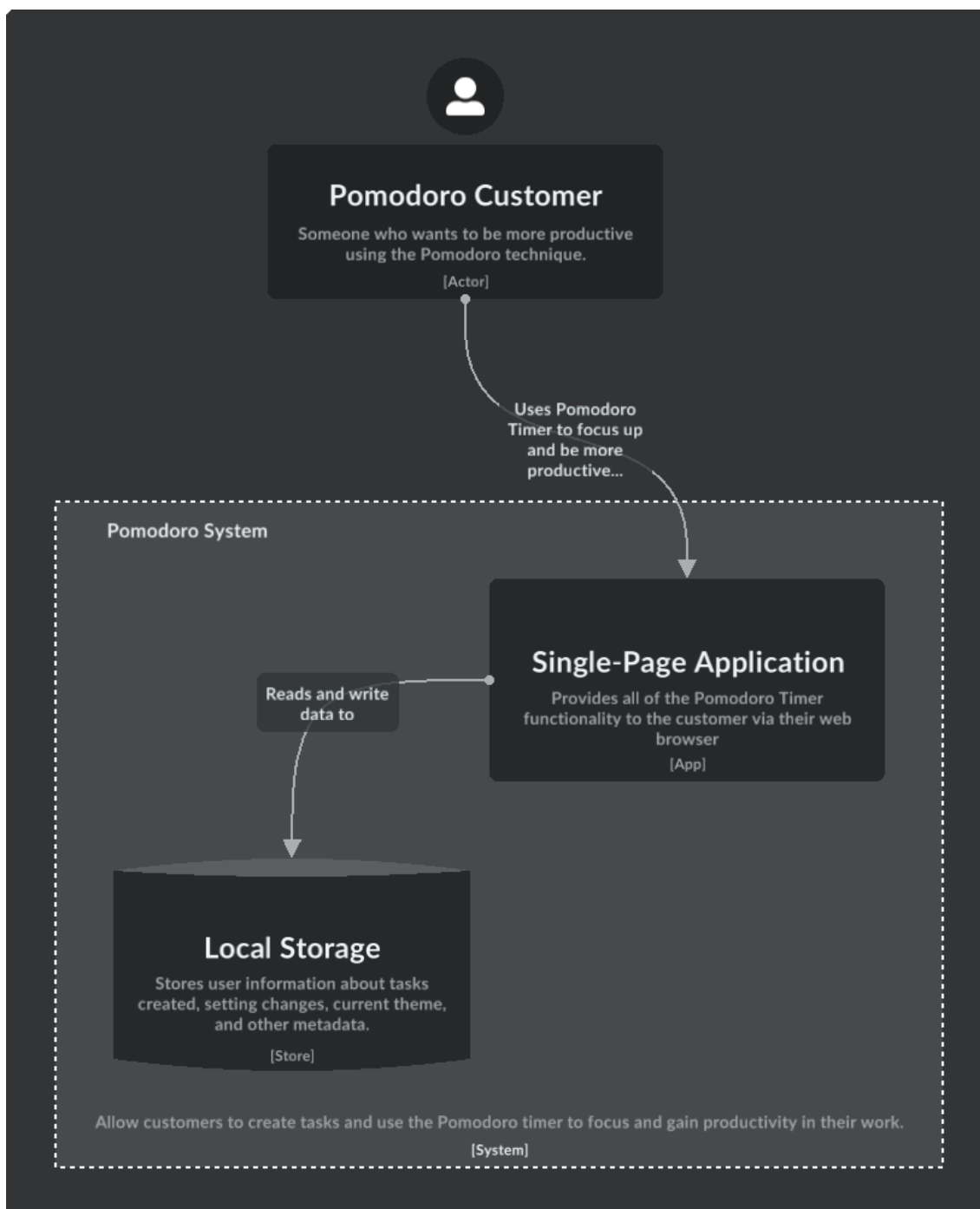
2. Systems

2.1. Pomodoro System

Allow customers to create tasks and use the Pomodoro timer to focus and gain productivity in their work.

2.1.1. App diagrams

2.1.1a. Entry diagram



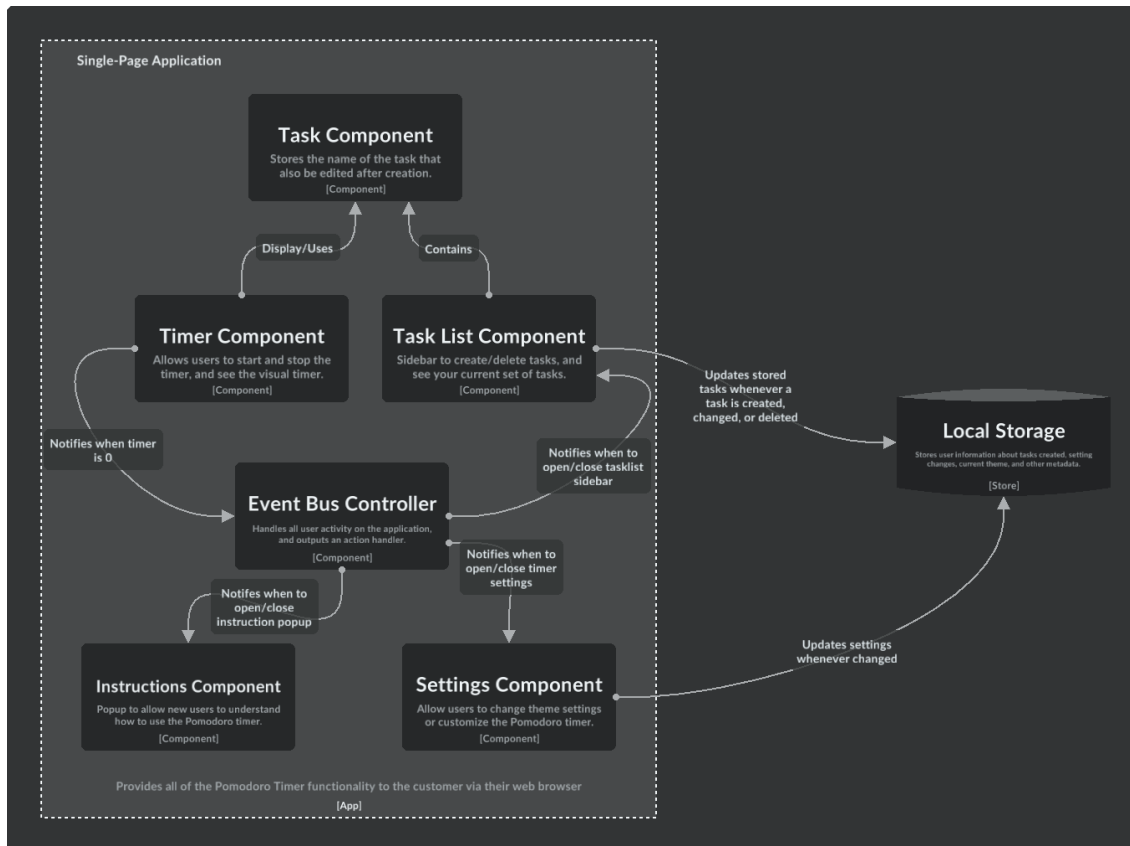
2.1.2. Apps

2.1.2.1. Single-Page Application

Provides all of the Pomodoro Timer functionality to the customer via their web browser

2.1.2.1.1. Component diagrams

2.1.2.1.1a. Entry diagram



2.1.2.1.2. Components

2.1.2.1.2a. Event Bus Controller

Handles all user activity on the application, and outputs an action handler.

Event Bus

This follows the builder pattern, where we initialize most of the `event listeners` that go across components so that user interaction is possible with the website.

This ranges from binding button events, starting/ending the timer, keyboard shortcuts, and handling the session/breaks according to the Pomodoro technique.

2.1.2.1.2b. Instructions Component

Popup to allow new users to understand how to use the Pomodoro timer.

Instructions Component

This is the popup box that contains instructions on how to use our **Powelldoro Timer**. We have information about how to add tasks, the Pomodoro Technique, and what keyboard shortcuts are available.

We have also designed it so that the instruction popup will appear if you're a new visitor, or that you are visiting the site after more than a month hiatus.

2.1.2.1.2c. Notification Controller

Notifies the user when the timer is finished in the current iteration.

Notification Controller

These are basically eventListeners in JavaScript that

2.1.2.1.2d. Settings Component

Allow users to change theme settings or customize the Pomodoro timer.

Settings Component

Timer Settings

The timer settings adjust the timer length, short break length, and long break length. Upon selection, these settings also update to the `localStorage` so that your customizations can be saved, even after a refresh.

In addition, there is a "Reset to default" button that resets your settings to the original settings we have selected for users.

Theme Settings

Pressing the theme settings will alternate the theme between a green, forest theme to a blue, starry theme, and so forth. This is essentially just a switch between CSS files.

2.1.2.1.2e. Task Component

Stores the name of the task that also be edited after creation.

Task Component

A task is just a `String` name of a desired task. In the sidebar, you can edit the name of the tasks, in case you want to change them. In the main `Timer component`, the tasks you create before you start the session will appear below the timer section in the same order as the sidebar list of tasks.

2.1.2.1.2f. Task List Component

Sidebar to create/delete tasks, and see your current set of tasks.

Task List Component

This sidebar is where a user interacts with creating, updating, and deleting tasks. Any of these operations will trigger an update to the Local Storage. Under the input to create tasks, you can also see a list of existing tasks, where you will be free to `drag and drop` each task to your desired order. In addition, there will also be error messages displayed here when you enter empty names or names that exceed the allowed number of characters.

2.1.2.1.2g. Timer Component

Allows users to start and stop the timer, and see the visual timer.

Timer Container/Component

The timer container has the **timer display** that counts down the remaining time for a given session, an **indicator** for how many Pomodoros a user has completed, a **Start Pomo!** button to start a session, a **Reset Pomo!** button to reset the timer for the current task, an **End Session** button to end your current Pomodoro session, a **current task display** to show your current task, and a **next task display** to show your next task.

The remaining time is also displayed in the title of the tab for user convenience.

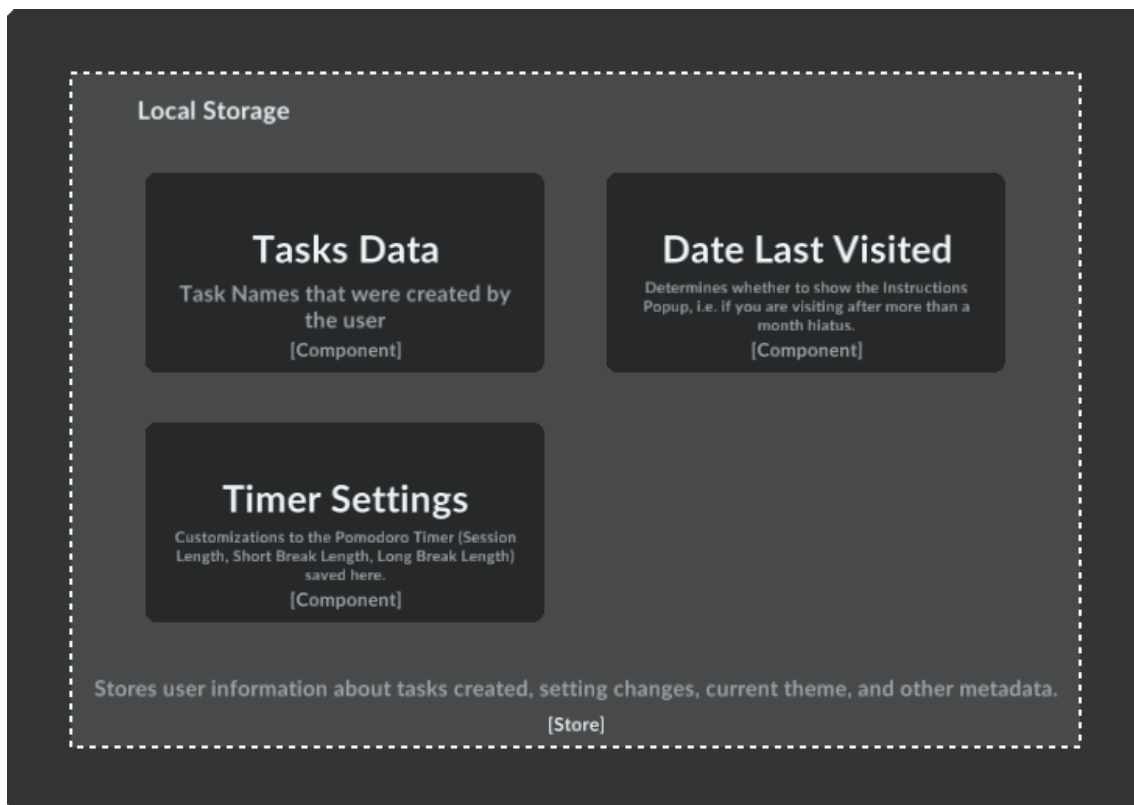
2.1.3. Stores

2.1.3.1. Local Storage

Stores user information about tasks created, setting changes, current theme, and other metadata.

2.1.3.1.1. Component diagrams

2.1.3.1.1a. Entry diagram



2.1.3.1.2. Components

2.1.3.1.2a. Date Last Visited

Determines whether to show the Instructions Popup, i.e. if you are visiting after more than a month hiatus.

2.1.3.1.2b. Tasks Data

Task Names that were created by the user

2.1.3.1.2c. Timer Settings

Customizations to the Pomodoro Timer (Session Length, Short Break Length, Long Break Length) saved here.