

| MangoDBConnect | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">provides methods to access the database and close the connection.Retrieves the MongoDB database instance and return the connected MongoDB instance.Stores lists of all user informations, mood and journal entries, and API gnerated suggestions. | <ul style="list-style-type: none">UserAccountLoginControllerCreateAccount ControllerUserLog |

| UserAccount | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">has the essential user information, like UserId, name, and password.Provides methods to manage user accounts, including account creation, login functionality, and verification of usernames.It interacts with a MongoDB collection to store and retrieve user data. | <ul style="list-style-type: none">MangoDBConnectLoginControllerCreateAccount Controller |

| JournalEntry | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">This class represent a journal entry.This class manages to create, viewing, and deleting journal entries. | <ul style="list-style-type: none">SuggestionUserLogMoodSuggestionHubControllerLogEmotionController |

| MoodEntry | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">Contains a couple of emoji attributes showing specific moods and emotions.The class represents a mood entry in the system. | <ul style="list-style-type: none">SuggestionJournalEntryUserLogMoodSuggestionHubControllerLogEmotionController |

| Suggestion | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">Generates text in response to the user log using Google Gemini API.In accordance to certain Trigger tags, emoji and journal entry inputted by the user, will output advice and suggestions for the user to enhance their mood. | <ul style="list-style-type: none">MoodEntryJournalEntryTriggerEntryUserLogLogEmotionControllerMoodSuggestionHubController |

| TriggerEntry | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">Tags that contain common mood triggers for people.Upon being selected, it collaborates with suggestion class and correlated String messages of advice will be output to the user. | <ul style="list-style-type: none">SuggestionMoodEntryJournalEntryUserLogMoodSuggestionHubControllerLogEmotionController |

| UserLog | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">This class represents a user's journal log.Stores all the required data to be serialized. | <ul style="list-style-type: none">TriggerEntrySuggestionMoodEntryJournalEntryMoodSuggestionHubControllerLogEmotionController |

| CreateAccountController | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">If the user doesn't have an account set, this class creates their account.Stores the new user's login info in the database. | <ul style="list-style-type: none">MangoDBConnectUserAccountLoginControllerCreateAccount ControllerUserAccount |

| FeelBitMain | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">This class is used to run the whole feelBit App.It works with the login controller to start the app. | <ul style="list-style-type: none">UserAccountLoginControllerMainInterfaceController |

| Helper | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">This is a helper class that contains methods like navigation and loading entries.This constructor initializes the displayPane for navigation and loading sections. | <ul style="list-style-type: none">JournalHistoryControllerLogEmotionControllerLoginControllerMainInterfaceControllerMoodStatsControllerMoodSuggestionHubController |

| JournalHistoryController | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">This controller retrieves all the user's journals from the database.Keeps track of all the user's journal entries.Allow the user to view their entries and read the AI generated suggestions to boost their moods. | <ul style="list-style-type: none">MangoDBConnectUserLogHelperLogEmotionControllerMainInterfaceControllerMoodSuggestionHubController |

| LogEmotionController | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">This class is responsible for creating and displaying user logs.Works with MoodEntry, TriggerEntry and JournalEntry to track and record the user's mood and generate suggestions. | <ul style="list-style-type: none">MangoDBConnectMainInterfaceControllerMoodSuggestionHubControllerJournalHistoryControllerUserLogHelper |

| LoginController | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">It implements the controller of login page.Allow the user to enter their account and log their mood and write journals. | <ul style="list-style-type: none">MangoDBConnectUserAccountCreateAccount ControllerFeelBitMainMainInterfaceControllerHelper |

| MainInterfaceController | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">It implement the controllers in the Homepage class for feelBit app.Allow the user to log their mood, see their journal entries and Mood stats graphs. | <ul style="list-style-type: none">FeelBitMainLogEmotionControllerJournalHistoryControllerMoodStatsControllerHelper |

| MoodStatsController | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">It implements the controllers of the moodStats page.Works with the database and MoodEntry to generate pie charts showing user's mood changes. | <ul style="list-style-type: none">MangoDBDatabaseMoodEntryMainInterfaceControllerLogEmotionControllerJournalHistoryControllerHelper |

| MoodSuggestionHubController | |
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| Responsibilities | Collaborators |
| <ul style="list-style-type: none">It implements the controllers for the suggestion class.Generates suggestion using GimniAPI to help the user feel better. | <ul style="list-style-type: none">SuggestionLogEmotionControllerHelperMoodEntryJournalEntryTriggerEntryUserLog |