**Tarot Application**

**Use Cases:**

Receive a randomized set of three cards, their description, and randomly if they are drawn reversed.

Browse a List of tarot cards.

View the image and descriptions of each tarot card.

Manually choose a card and if it is drawn reversed.

Save the randomized tarot reading to a file.

Save manual tarot reading to a file.

Enter text representing a journal entry or reflection of a reading.

Load previous journal entries.

Delete journal entries.

Access and view help pdf

View information about the application and author.

**This application uses a four-tier model of the following projects:**

DataAccess: Handles file read/write operations.

DataObjects: Contains custom data objects of the program.

Logic: Handles operations and data sent to Tarot views.

Tarot: Handles user interaction.

**Dependencies:**

Diagram

Description automatically generated

**Data Files:**

save\_data.txt - tab delimited: date created, card1 id, card2 id, card3 id, is reversed?, journal entry

tarot\_info.txt – tab delimited: card id, card name, upright description, reversed description, image name

tarotReaderHelp.pdf – opens in system default viewer. Displays information on how to use the application.

**Resource Files:**

.png tarot cards and background images

**DataObjects:**

Card:

* string id
* string name
* string upright description
* string reversed description

Reading:

* string date
* string card1 id
* string card2 id
* string card3 id
* string isReverse1
* string isReverse2
* string isReverse3
* string reflection

**Tarot Presentation Views:**

TarotMain:

Menu control:

File -> Open / Exit

Tool -> Library (launch TarotLibrary) / Physical Reading (launch Physical Reading)

About -> About (launch About)

Help -> Help (execute open helper pdf)

X3 PictureBox to display tarot card images

X3 Label controls to display card names

X3 Label controls to display if card is drawn reversed

X3 text controls to display card descriptions

Button controls: New Fortune (generate new fortune)

Save (hidden until New Fortune click action, launch , JournalEntry)

Exit (exit program)

TarotLibrary:

Control to display a list of tarot card names

PictureBox control that displays card image

Label that displays card name

X2 textboxes, one displaying upright description, the other the reversed description.

Buttons: Close(close current window), ? (open help pdf file)

PhysicalReading:

X3 PictureBox controls that show card images

X3 ListBox controls for user to select card name from list

X3 CheckBox controls to determine if card is drawn reversed

X3 TextBox controls to display card descriptions

Buttons: Save (open JournalEntry), Close (close this window)

JournalEntry:

X3 PictureBox controls to display card images

X3 labels to display card names

X3 labels to display if card is reversed

X3 TextBox controls to display card descriptions

ListBox to display list of saved entries

TextBox to display/enter journal entry

Buttons: ? (open help pdf), Save (save current entry), Delete (delete selected entry from ListBox), Close (close current window)

About:

RichTextBox that displays text

**Logic Classes:**

CardManager:

string[] getCardById(List<Card> deck, string cardId)

DeckManager:

List<Card> newDeck()

Helpers:

string shuffleID()

bool isReversed()

void openHelper()

JournalManager:

Void setJournalEntry(string id1, string id2, string id3, bool[] isReversed)

string[][] getJournalEntry()

void saveToJournal(List<Reading> readings)

string[][] loadJournalEntry(List<Reading> readings, int index)

SpreadManager:

public string[][] newSpread(string id1, string id2, string id3)

public string[] findCardByID(string cardID)