

The deliverables defined below are due at 9:30 a.m. (the beginning of class) on Tuesday, October 28. Students will receive 20 points off for every hour that they are late in turning in their work.

Everyone must work alone and without help from others or AI.

Consider the following screenshot of the [amazon.com](https://www.amazon.com) product page for a book titled *Gödel, Escher, Bach: An Eternal Golden Braid*. Note: some information on the page has been removed.

The screenshot shows the Amazon product page for the book "Gödel, Escher, Bach: An Eternal Golden Braid" by Douglas R. Hofstadter. The page includes the book cover, title, author, ratings, and purchase options. The book is a paperback, published on February 5, 1999, and is priced at \$13.01 (48% off the list price of \$24.99). It is a #1 Best Seller in Mathematics History and has won the Pulitzer Prize and National Book Award in 1980. The page also features a "Customers also bought" section with three recommended books: "The Moscow Puzzles" and "Introduction to Graph Theory".

Books › Politics & Social Sciences › Philosophy › History & Schools of Thought › Western › Modern

Gödel, Escher, Bach: An Eternal Golden Braid Paperback – February 5, 1999

by Douglas R Hofstadter (Author)

4.7 ★★★★★ (2,564)

#1 Best Seller in Mathematics History

Pulitzer Prize Winner, 1980 National Book Award Winner, 1980

Winner of the Pulitzer Prize

A metaphorical fugue on minds and machines in the spirit of Lewis Carroll

Douglas Hofstadter's book is concerned directly with the nature of "maps" or links between formal systems. However, according to Hofstadter, the formal system that underlies all mental activity transcends the system that supports it. If life can grow out of the formal chemical substrate of the cell, if consciousness can emerge out of a formal system of firing neurons, then so too will computers attain human intelligence. *Gödel, Escher, Bach* is a wonderful exploration of fascinating ideas at the heart of cognitive science: meaning, reduction, recursion, and much more.

Print length	Language	Publisher	Publication date	Dimensions
824 pages	English	Basic Books	February 5, 1999	6.5 x 1.9 x 9.25 inches

Buy new: -48% **\$13⁰¹**
List Price: \$24.99

FREE delivery **Monday, October 27**. Order within 23 hrs 39 mins

In Stock

Quantity: 1

Add to Cart **Buy Now**

Shipper / Seller Amazon.com
Returns FREE 30-day refund/replacement
Gift options Available at checkout

Customers also bought

Based on products customers bought together



This item: Gödel, Escher, Bach: An Eternal Golden Braid
4.7 ★★★★★ 2,564
-48% **\$13⁰¹**
List: \$24.99



Sponsored
The Moscow Puzzles: 359 Mathematical Recreations (Dover Math Games & Puzzles)
4.6 ★★★★★ 867
-43% **\$9⁶⁵**
List: \$16.95



Sponsored
Introduction to Graph Theory (Dover Books on Mathematics)
4.6 ★★★★★ 589
-42% **\$9⁸¹**
List: \$16.95

Design a set of collections, using appropriate design patterns, that are necessary to support an online store that sells books (and only books). The collections should allow a user to search for books and efficiently retrieve product pages containing **all** of the information displayed in the screenshot. You do not need to provide data in collections that is not displayed in the screenshot (e.g. user information).

Write source code that creates Mongoose models (models require schema) for each of the collections in the set you've designed. Your source code should compile.

Write a report that describes your rationale for the design patterns that you've incorporated in your schema.

Staple together a coversheet, a hard copy of your report, and your source code. Hand in at 9:30 a.m. on Tuesday, October 28.