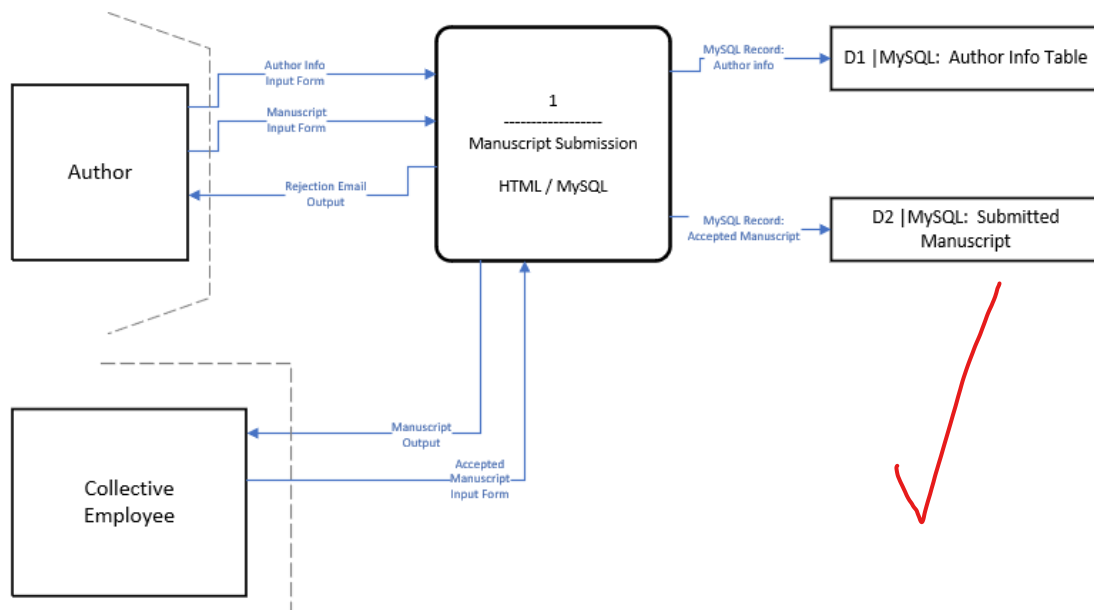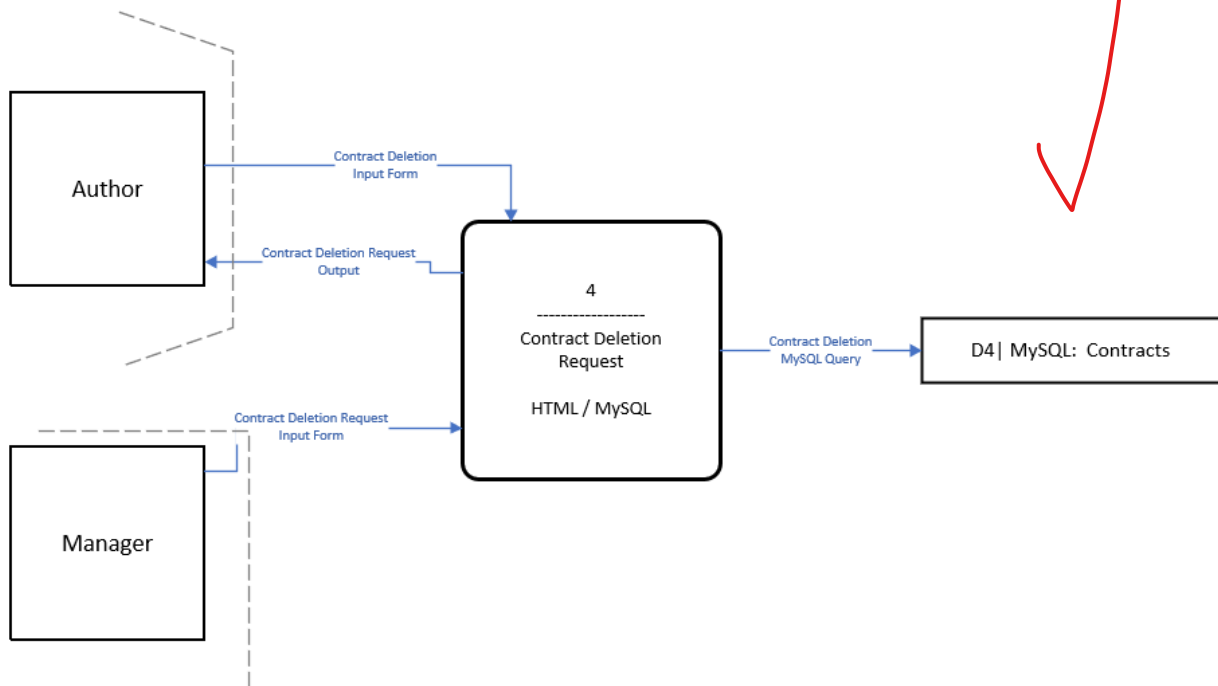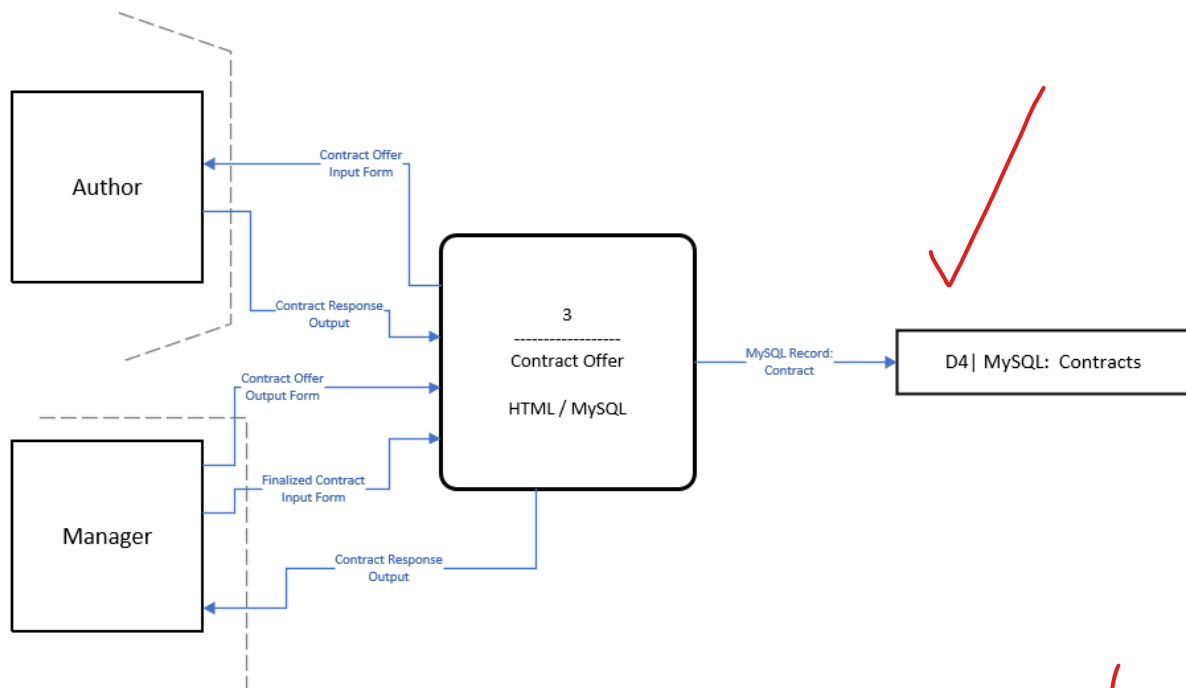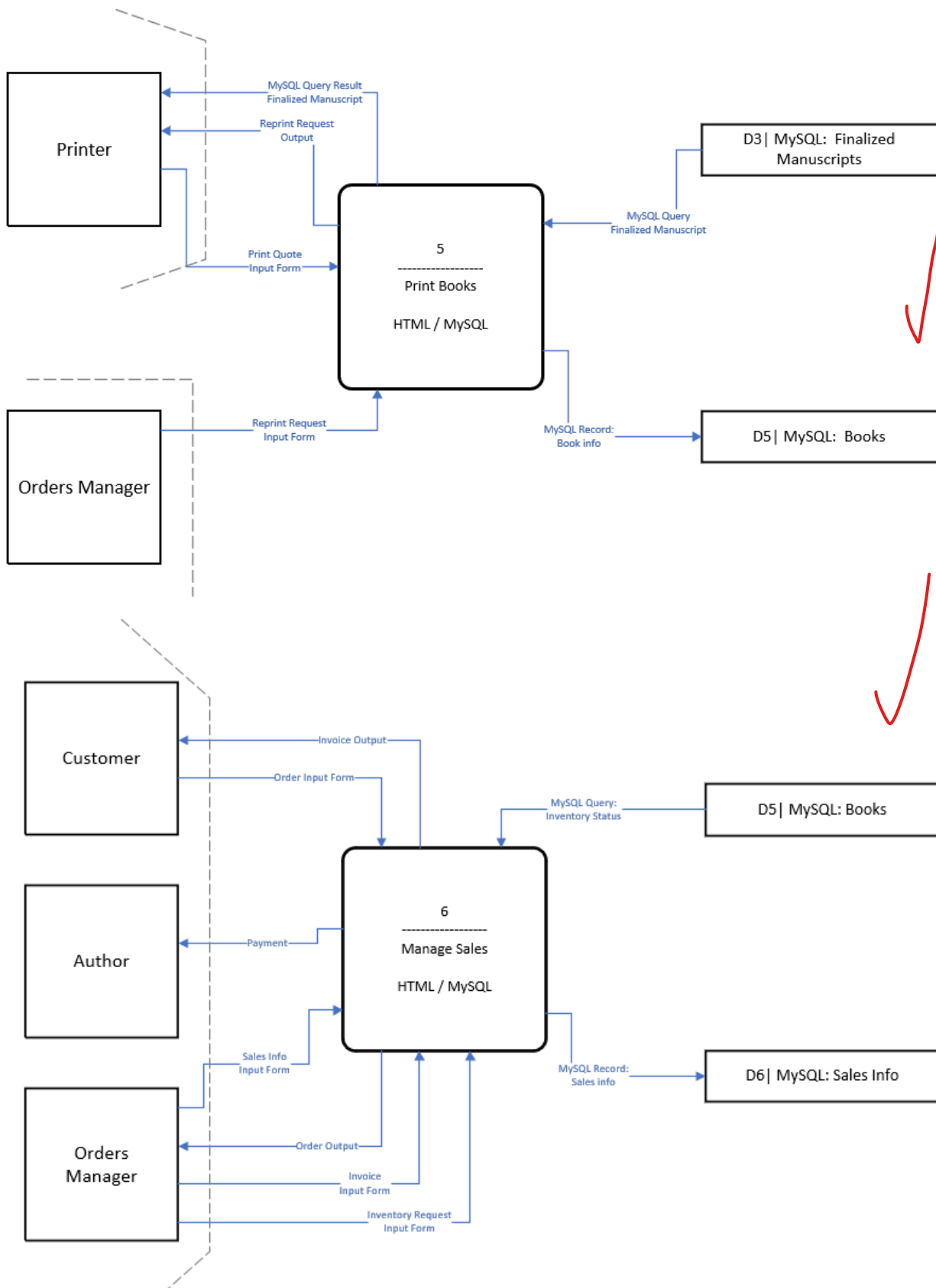Kaitaia Publishing Collective

CSC 4700 Systems Design & Implementation

Fitchburg State University

Haris Khan, Konan Kouame, Ryan Horwitz, Benjamin Jackson

Part One - Physical DFDs

Diagram 1: Author → (1) Manuscript Submission (HTML / MySQL). Flows: Author Info Input Form, Manuscript Input Form into process; Rejection Email Output back to Author. Process outputs MySQL Record: Author info → D1 |MySQL: Author Info Table; MySQL Record: Accepted Manuscript → D2 |MySQL: Submitted Manuscript. Collective Employee: Manuscript Output, Accepted Manuscript Input Form.

Diagram 2: Editor ↔ (2) Manuscript Editing (HTML / MySQL). Flows: Accepted Manuscript Output to Editor, Finalized Manuscript Input Form into process. D2 |MySQL: Submitted Manuscript → MySQL Record: Accepted Manuscript into process; process → MySQL Record: Finalized Manuscript → D3 |MySQL: Finalized Manuscript.

Author

Contract Offer
Input Form

Contract Response
Output

Contract Offer
Output Form

3

Contract Offer

HTML / MySQL

MySQL Record:
Contract

D4| MySQL: Contracts

Finalized Contract
Input Form

Manager

Contract Response
Output

Author

Contract Deletion
Input Form

Contract Deletion Request
Output

4

Contract Deletion
Request

HTML / MySQL

Contract Deletion
MySQL Query

D4| MySQL: Contracts

Contract Deletion Request
Input Form

Manager

Process 5 — Print Books (HTML / MySQL)

- Printer → MySQL Query Result / Finalized Manuscript
- Printer ← Reprint Request Output
- Printer → Print Quote Input Form
- D3| MySQL: Finalized Manuscripts → MySQL Query Finalized Manuscript
- Orders Manager → Reprint Request Input Form
- Print Books → MySQL Record: Book info → D5| MySQL: Books

Process 6 — Manage Sales (HTML / MySQL)

- Customer ← Invoice Output
- Customer → Order Input Form
- D5| MySQL: Books → MySQL Query: Inventory Status
- Author ← Payment
- Orders Manager → Sales Info Input Form
- Orders Manager ← Order Output
- Orders Manager → Invoice Input Form
- Orders Manager → Inventory Request Input Form
- Manage Sales → MySQL Record: Sales info → D6| MySQL: Sales Info

Comment: Your team has done a great job creating physical DFD fragmentations. However, it's still desirable to combine all the DFD fragmentations and create a physical DFD for level 0 logical DFD.
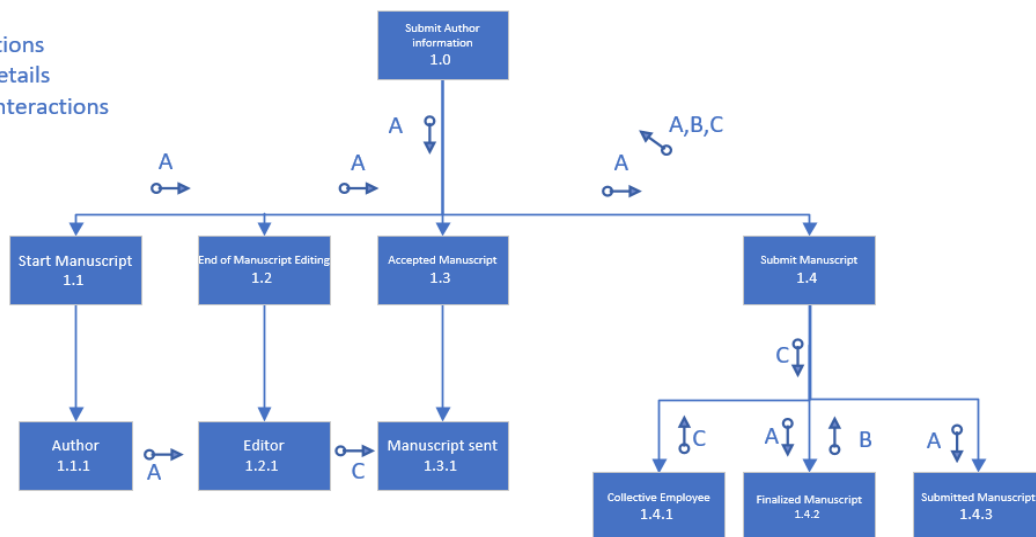
Part Two: Structure charts

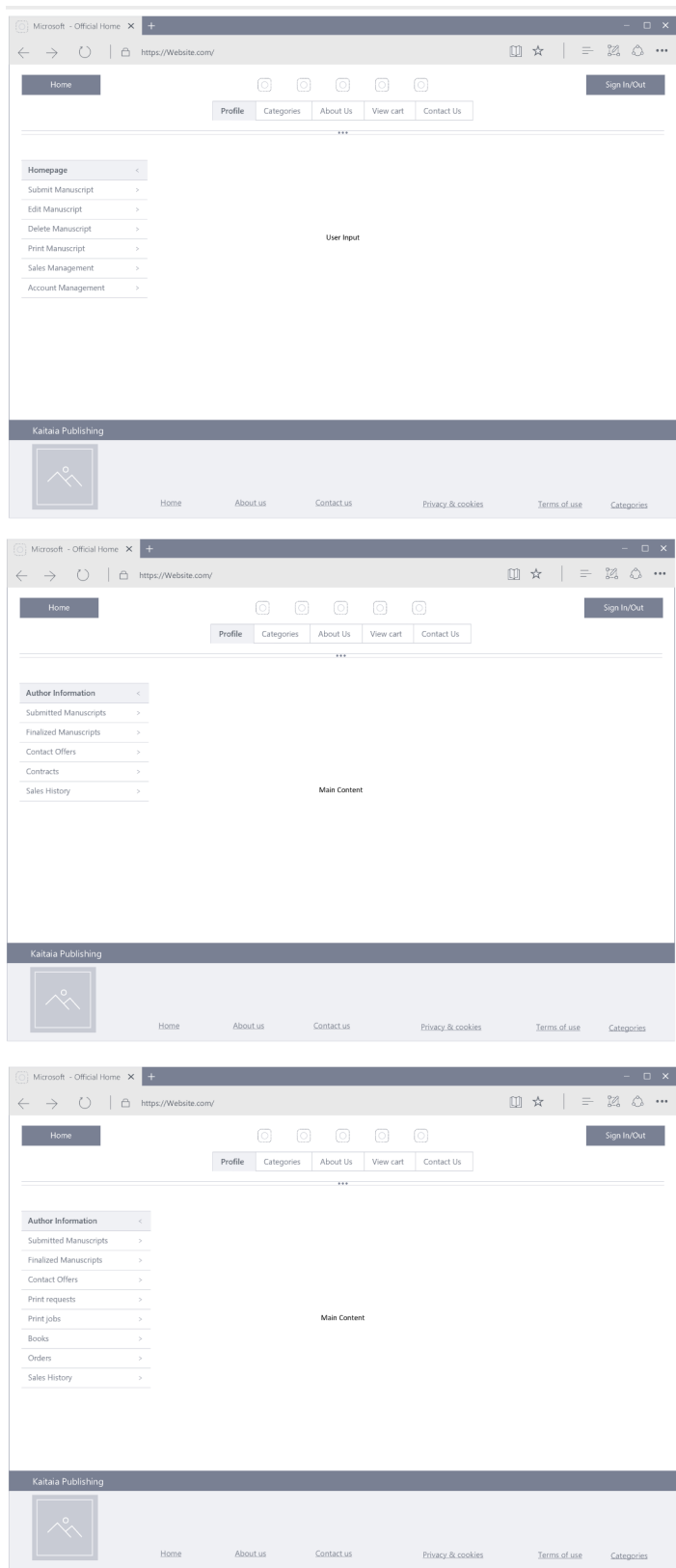### Modules and levels
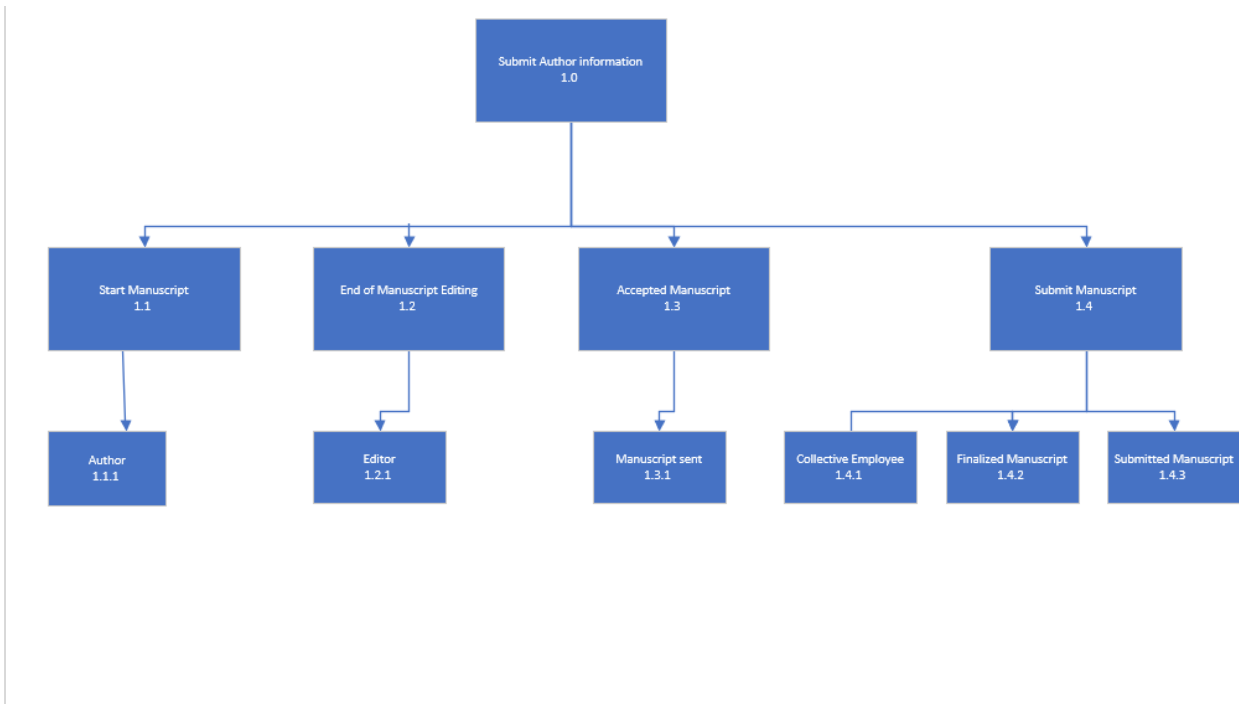
Adding couples

A: Author Interactions
B: Manuscript Details
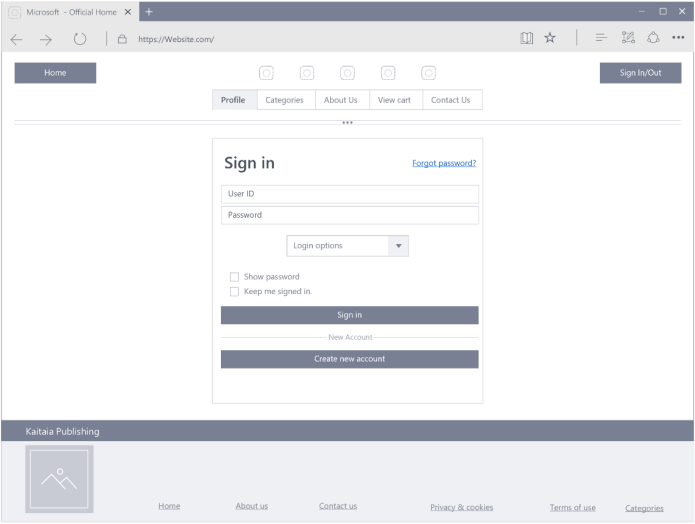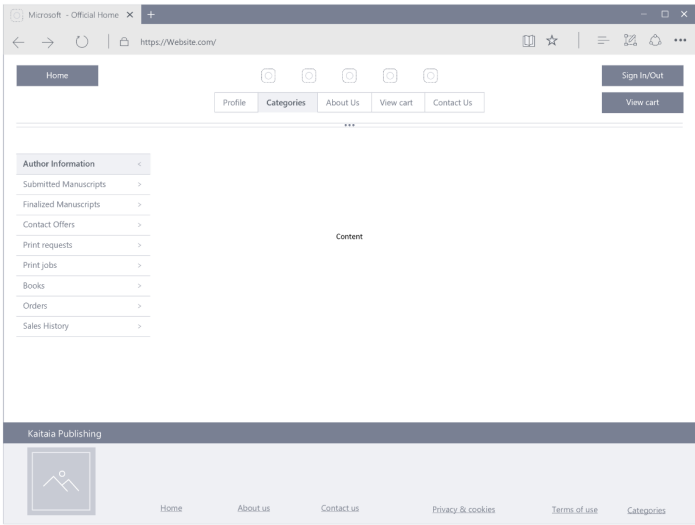C: Employee Interactions

Comment:
1. Your structure chart seems to correspond to the first physical DFD fragment.
2. Each subordinate module (such as 1.1, 1.2, or 1.3) should correspond to a level 1 process decomposed from process 1.0 in level 0 DFD.
3. You had better include the structure charts for other physical DFD fragments.

Output

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Submit Manuscript

Edit Manuscript

Delete Manuscript

Print Manuscript

Sales Management

Account Management

User Input

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Part Three - Computer Languages

As we are at an early stage of the implementation, we will use HTML for the website. PHP and SQL