

# Data Requirements Specification (DRS)

# of **Ds**: 14

# of **Cs**: 19

Version 2.0

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## Approvals Signature Block

	Name	Signature	Date
Customer	Dr. Victoria Hilford		
DBA	Joseph Hart		
DBA	Jose Hernandez		
TL	Anjay Ajodha		
SQA	Cameron Alexander		
SQA	Arturo Ayala		

**TABLE 1: Data Requirements**

ID	Detail	Entity Set/Relationship Set Name	Accessed by Actor(s)	Accessed type (r,w,query)	Line #
<b>D1</b>	Customer, 8 attributes:	<b>E1: Customers</b>	Customers, Employee		
	A1: <b><u>Customer#</u></b>			r,query	7
	A2: LastName			r,w,query	10
	A3: FirstName			r,w,query	9
	A4: B&SAddress			r,w,query	10
	A5: Username			r,query	100
	A6: Password			r,w,query	101
	A7: Email			r,w,query	10
<b>D2</b>	Orders, 4 attributes:	<b>E2: Orders</b>	Customers, Employee		
	A1: <b><u>Order#</u></b>			r,query	7
	A2: OrderDate			r,w,query	18
	A3: ShipDate			r,w,query	18
	A4: ShipStreet			r,w,query	21
<b>D3</b>	Books, 7 attributes:	<b>E3: Books</b>	Customers, Employee		
	A1: <b><u>ISBN</u></b>			r,query	13
	A2: Title			r,w,query	13
	A3: PubDate			r,query	13
	A4: Cost			r,w,query	13
	A5: Retail			r,w,query	13
	A6: Category			r,w,query	13
	A7: QOH			r,w,query	13
<b>D4</b>	Publisher, 4 attributes:	<b>E4: Publisher</b>	Customers, Employee		
	A1: <b><u>PubID</u></b>			r,query	15
	A2: Name			r,query	14
	A3: Contact			r,w,query	14
	A4: Email			r,w,query	14
<b>D5</b>	Author, 3 attributes:	<b>E5: Author</b>	Customers, Employee		
	A1: <b><u>AuthorID</u></b>			r,query	16
	A2: LName			r,w,query	16
	A3: FName			r,w,query	15

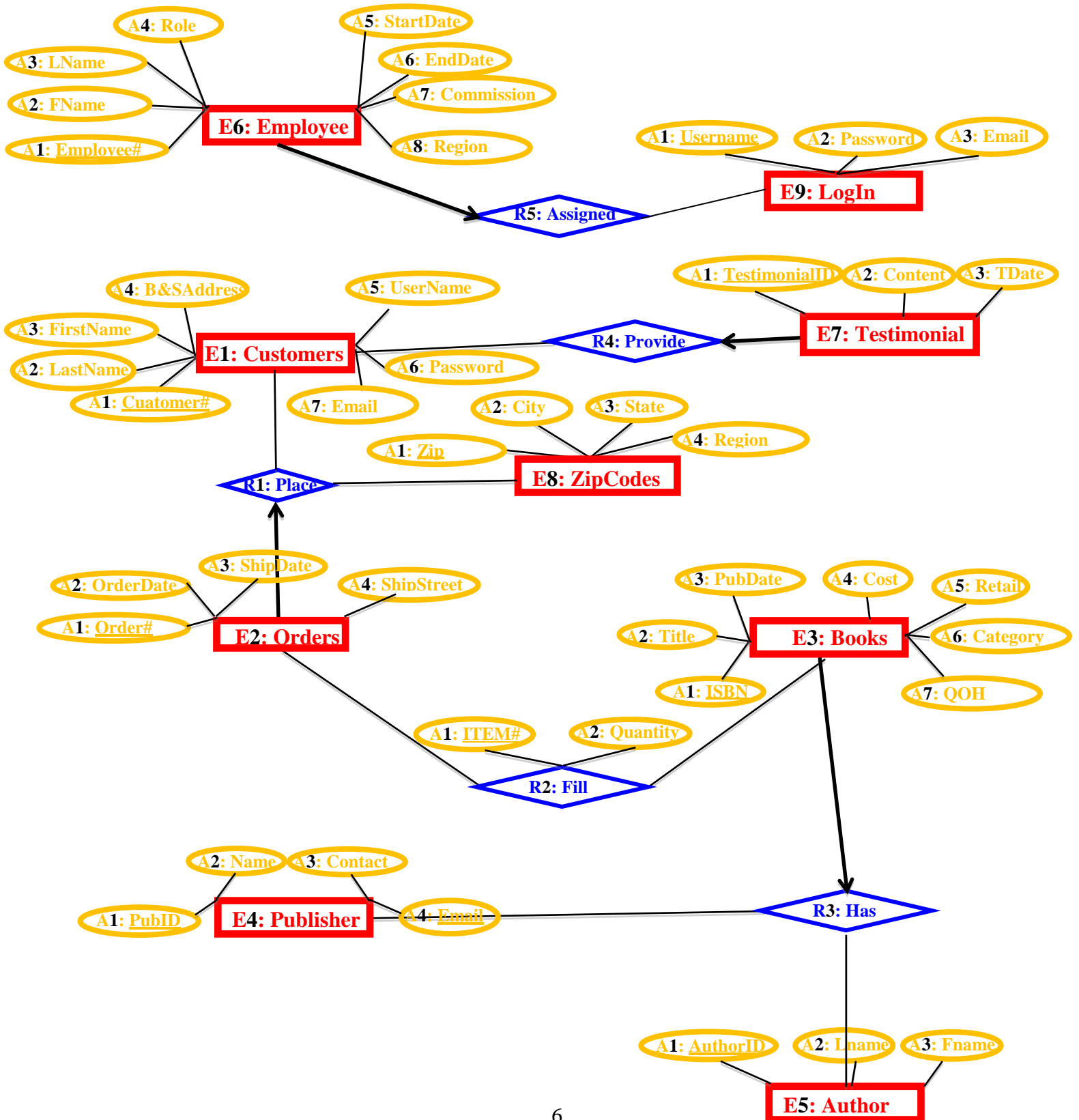
<b>D6</b>	Employee, 9 attributes:  A1: <b><u>Employee#</u></b> A2: FName A3: LName A4: Role A5: StartDate A6: EndDate A7: Commission A8: Region	<b>E6: Employee</b>	Employee	r,query r,w,query r,w,query r,w,query r,query r,w,query r,w,query r,w,query	20 20 20 95 90 90 91 91
<b>D7</b>	Testimonial, 3 attributes:  A1: <b><u>TestimonialID</u></b> A2: Content A3: TDate	<b>E7: Testimonial</b>	Customers, Employee	r,query r,w,query r,query	129 129 129
<b>D8</b>	ZipCodes, 4 attributes:  A1: <b><u>Zip</u></b> A2: City A3: State A4: Region	<b>E8: ZipCodes</b>	Customers, Employee	r,query r,w,query r,w,query r,w,query	
<b>D9</b>	LogIn, 3 attributes:  A1: <b><u>Username</u></b> A2: Password A3: Email	<b>E9: LogIn</b>	Employee	r,query r,w,query r,w,query	
<b>D10</b>	Place, 0 attributes	<b>R1: Place</b>	Customers & Orders		
<b>D11</b>	Fill, 2 attributes  A1: <b><u>ITEM#</u></b> A2: Quantity	<b>R2: Fill</b>	Books & Orders	r,query r,w,query	12 12
<b>D12</b>	Has, 0 attributes	<b>R3: Has</b>	Books & Publisher, Author		
<b>D13</b>	Provide, 0 attributes	<b>R4: Provide</b>	Customers & Testimonial		
<b>D14</b>	Assigned, 0 attributes	<b>R5: Assigned</b>	Employee & LogIn		

**TABLE 2: Constraints**

ID	Detail	Entity Set PK or Views or Triggers	Constraints
C1	A1. Customer#	E1: Customers	PK
C2	A1. Order#	E2: Orders	PK
C3	A1. ISBN	E3: Books	PK
C4	A1. PubID	E4: Publisher	PK
C5	A1. AuthorID	E5: Author	PK
C6	A1. Employee#	E6: Employee	PK
C7	A1. TestimonialID	E7: Testimonial	PK
C8	A1. ISBN A2. Title A3 Author	V1: View Book	Book is found in database
C9	A1. Order#	V2: View Order	Order is found in database
C10	SELECT * All E3: Books Attributes	V3: View Items	CHECK if user is in Employee table
C11	A6. Category	V4: View Categories	CHECK if user is in Employee table
C12	A1. ISBN A4. Cost A5. Retail	V5: View Profit	CHECK if book is in Books table and
C13		T1: ReOrderItem	ON UPDATE check QOH <= 3
C14		T2: ShipItem	ON purchase check if all OrderItems' Quantity are present
C15		T3: TransferOrder	ON UPDATE check TIMESTAMP for Orders table
C16		T4: DistributeGift	ON purchase CHECK Price total and promotions

<b>C17</b>		<b>T5:</b> <b>TrackCustomers</b>	<b>CHECK Orders table and Category field for Customers</b>
<b>C18</b>		<b>T6: DiscountItem</b>	<b>CHECK purchase total for Orders</b>
<b>C19</b>		<b>T7:</b> <b>DetermineProfit Percentage</b>	<b>CHECK Price minus Retail divided by cost</b>

FIGURE 1: ERD MODEL



## DOCUMENT CONTROL

### CHANGE HISTORY

Revision	Name	Due Date	Description
1.A	DBA Joseph Hart	2/26/14	Complete XXX
1.B	DBA Jose Hernandez	2/26/14	Complete YYY
1.X	SQA Arturo Ayala	03/03/2014	Review Document
1.Y	SQA Cameron Alexander	03/03/2014	Review Document

Revision	Name	Completed Date	Description
1.A	DBA Joseph Hart	2/26/14	I completed XXX <b>I certify that the TEAM has used “COMPILABLE” ERD LANGUAGE where EACH E, R, and A has a NUMBER and LABEL and they are marked on THIS DOCUMENT.</b>
1.B	DBA Jose Hernandez	2/26/14	Jose Hernandez 3/3/14. Finished constraints table. <b>I certify that the TEAM has used “COMPILABLE” ERD LANGUAGE where EACH E, R, and A has a NUMBER and LABEL and they are marked on THIS DOCUMENT.</b>
1.X	SQA Arturo Ayala	03/03/2014	I reviewed Document
1.Y	SQA Cameron Aleander	03/03/2014	I reviewed Document

Revision	Name	Due Date	Description
<b>2.0</b>	TL Anjay Ajodha	03/03/2014	I changed Version to 2.0

### DOCUMENT STORAGE

This file is stored in **SVN** at <https://svn.cs.uh.edu/svn/cosc4351/team1/DB TEAM PROJECT DELIVERABLES/Data Requirements Specification.doc>.