

Data Requirements Specification (DRS)

of **Ds**: 14

of **Cs**: 19

Version 2.0

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 #
D1	Customer, 8 attributes:	E1: Customers	Customers, Employee		
	A1: <u>Customer#</u>			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
D2	Orders, 4 attributes:	E2: Orders	Customers, Employee		
	A1: <u>Order#</u>			r,query	7
	A2: OrderDate			r,w,query	18
	A3: ShipDate			r,w,query	18
	A4: ShipStreet			r,w,query	21
D3	Books, 7 attributes:	E3: Books	Customers, Employee		
	A1: <u>ISBN</u>			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
D4	Publisher, 4 attributes:	E4: Publisher	Customers, Employee		
	A1: <u>PubID</u>			r,query	15
	A2: Name			r,query	14
	A3: Contact			r,w,query	14
	A4: Email			r,w,query	14
D5	Author, 3 attributes:	E5: Author	Customers, Employee		
	A1: <u>AuthorID</u>			r,query	16
	A2: LName			r,w,query	16
	A3: FName			r,w,query	15

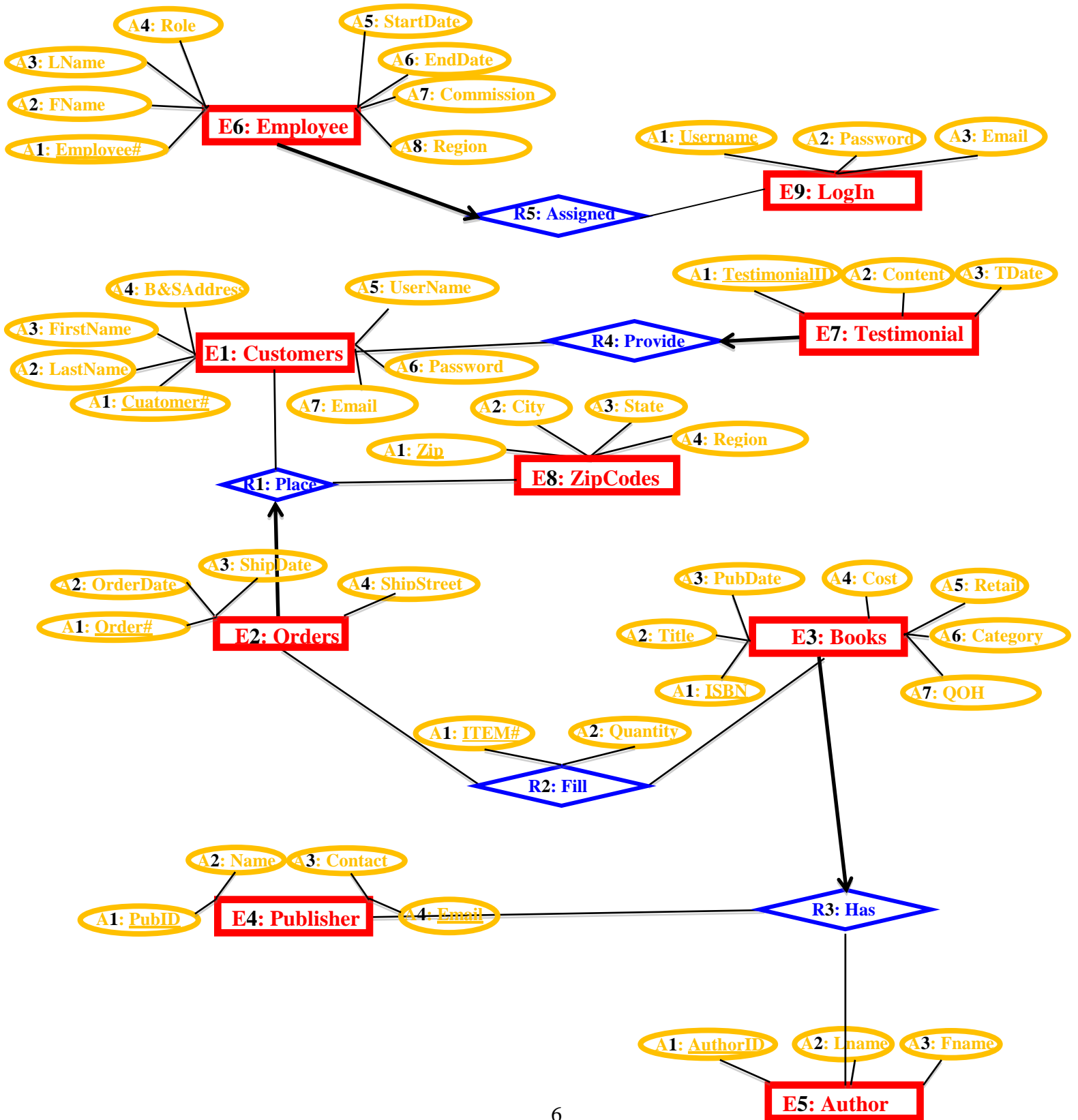
D6	Employee, 9 attributes: A1: <u>Employee#</u> A2: FName A3: LName A4: Role A5: StartDate A6: EndDate A7: Commission A8: Region	E6: Employee	Employee	r,query r,w,query r,w,query r,w,query r,query r,w,query r,w,query r,w,query	20 20 20 95 90 90 91 91
D7	Testimonial, 3 attributes: A1: <u>TestimonialID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

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

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 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.
1.B	DBA Jose Hernandez	2/26/14	Jose Hernandez 3/3/14. Finished constraints table. 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.
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
2.0	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>.