

Chapter Four: Database Design

4.1 ER Diagram

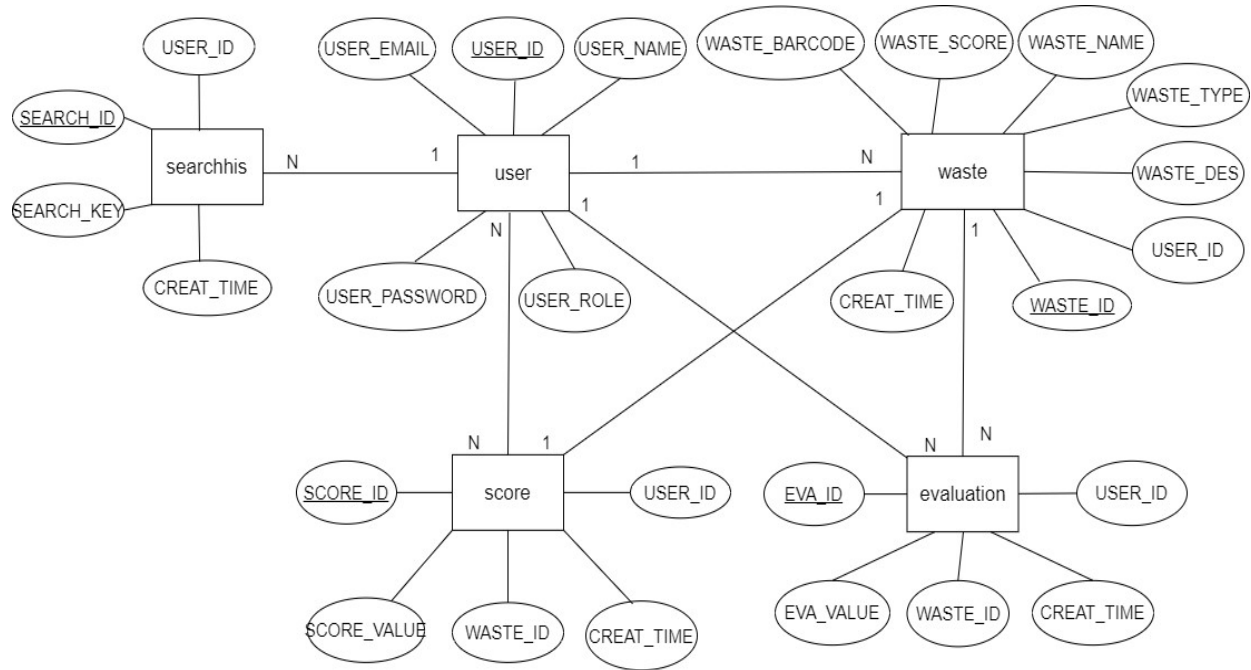


Figure 3: ER Diagram for Database

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4.2 Data Collections

user Table

Field Name	Description	Data type	Size	Key	Example
USER_ID	Id is the identity of each user	varchar	20	primary	U2202513703
USER_NAME	The name of user	varchar	50		syx
USER_PASSWAORD	The password of user	varchar	20		123
USER_EMAIL	The email of user	varchar	20		Syx1998@gmail.com
USER_ROLE	The role of user	varchar	50		User

waste Table

Name	Description	Data type	Size	Key	Example
WASTE_ID	Id is the identity of each waste	varchar	20	primary	W7216640612
WASTE_NAME	The name of waste	varchar	50		glass
WASTE_TYPE	The type of waste	varchar	20		Recyclable waste
WASTE_DES	The description of waste	varchar	200		Glass can be recycled
USER_ID	The waste is belong to the user	varchar	20		U2202513703
WASTE_BARCODE	The barcode of waste	varchar	20		8851959139714
WASTE_SCORE	The score of waste	varchar	20		4.3
CREAT_TIME	Get time when the waste was posted by the user	bigint	20		1598554059077

searchhis Table

Name	Description	Data type	Size	Key	Example
SEARCH_ID	Id is the identity of each input search word	varchar	20	primary	S0618104165
USER_ID	The input search word is belonging to the user	varchar	20		U2202513703
SEARCH_KEY	The input search word	varchar	20		book
CREAT_TIME	Get time when user input search	bigint	20		1602322744720

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score Table

Name	Description	Data type	Size	Key	Example
SCORE_ID	Id is the identity of each waste score	varchar	20	primary	S6171750313
WASTE_ID	The score is belonging to the waste	varchar	20		W7216640612
USER_ID	The score is belong to the user	varchar	20		U2202513703
SCORE_VALUE	The average of the scores	varchar	20		4.5
CREAT_TIME	Get time when user give score	bigint	20		1602322682827

evaluation Table

Description: This table for waste is belongs to user who post.

Name	Description	Data type	Size	Key	Example
EVA_ID	Id is the identity of each waste evaluation	varchar	20	primary	E1928158296
WASTE_ID	The evaluation is belonging to the waste	varchar	20		W7216640612
USER_ID	The evaluation is belong to the user	varchar	20		U2202513703
EVA_VALUE	The evaluation of waste	varchar	200		This is good sort
CREAT_TIME	Get time when user comment	bigint	20		1602319344829

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