

LifeWatch: Schema

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USER (Username, password, email, age, profession)

Table name: it is called USERS to just store user's personal data

Table entity: This table stores users' info, each row is a user entity

Related to other table: all other tables will use the username to represent their data related to an entity in this table.

Attribute-username(varchar(25)): username of this user

Attribute-password(varchar(25)): user's password

Attribute-email(varchar(50)): user's email info

Attribute-age(int(2)): user's age

Attribute-profession (varchar(20)): user's profession

MOTION (Username, Time, motionBlob)

Table name: this table is used to stored user's raw motion data, we call it motion

Table entity: Each row in this table represent the raw data obtained from users movement at a specific time.

Related to other table: username referencing to the user in the **USER** table.

Attribute-username(varchar(25)): indicates the source of this data entry

Attribute-time (datetime): indicate the time that the entry is input

Attribute-motionBlob (Blob): this is serialized raw motion data

-Foreign Key **Username** references **USER**

ACTIVITY (Username, startTime, endTime, activityType, Location)

Table name: it is called ACTIVITY because it primarily records what activities a user performs

Table entity: **startTime** and **endTime** are the start and ending times of the activity. **activityType** represents the computed user activity during that time, i.e. walking, playing basketball, driving, etc.

Related to other table: This table stores a instances of user activity as obtained from analyzing the raw data stored in **MOTION**.

Attribute-username(varchar(25)): indicates the source of this data entry

Attribute-startTime (datetime): indicate the time that the user activity starts

Attribute-endTime (datetime): indicate the time that the user activity ends

Attribute-activityType (varchar(15)): indicate the type of this activity

Attribute-Location (varchar(15)): indicate the location of this activity happened.

-Foreign Key **Username** references **USER**

-Foreign Key **startTime** references **MOTION**

-Foreign Key **endTime** references **MOTION**