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Software Engineering Tutorial

## Structured English

Most programmers are unaware of the large picture of software so they only rely on what their managers tell them to do. It is the responsibility of higher software management to provide accurate information to the programmers to develop accurate yet fast code.

Different methods, which use graphs or diagrams, at times might be interpreted in a different way by different people.

Hence, analysts and designers of the software come up with tools such as Structured English. It is nothing but the description of what is required to code and how to code it. Structured English helps the programmer to write error-free code. Here, both Structured English and Pseudo-Code tries to mitigate that understanding gap.

Structured English uses plain English words in structured programming paradigm. It is not the ultimate code but a kind of description what is required to code and how to code it. The following are some tokens of structured programming:

```
IF-THEN-ELSE;
```

```
DO-WHILE-UNTIL;
```

Analyst uses the same variable and data name, which are stored in Data Dictionary, making it much simpler to write and understand the code.

### Example

We take the same example of Customer Authentication in the online shopping environment. This procedure to authenticate customer can be written in Structured English as:

```
Enter Customer_Name
```

```
SEEK Customer_Name in Customer_Name_DB file
```

```
IF Customer_Name found THEN
```

```
Call procedure USER_PASSWORD_AUTHENTICATE()
```

```
ELSE
```

```
PRINT error message
```

```
Call procedure NEW_CUSTOMER_REQUEST()
```

```
ENDIF
```



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