**Use case:** Function declaration

**Primary actor:** computer

**Goal in context:** A function name is added to the harsh table of Reserved word and the statements in between the begin … end block are added to the event manager under the function name.

**Preconditions:** The computer has successfully parsed the code.

**Post Condition:** function statement have been added to the event manager as an event.

**Trigger:** computer encounters a function token and the function event is triggered.

**Scenario:**

|  |  |
| --- | --- |
|  | 1. Tokens following the “function” token are passed to the function event ending with the END token. |
|  | 1. The first token is the identifier and is added to the event manager hash table |
|  | 1. The remaining tokens are stored in a function object as a container of tokens. |

**Exceptions:**

1. If a “begin” or “function” token is encountered before the “end” token than the program terminates with a syntax error ” must enclose block with begin and end line #”
2. If hash table already contains the identifier than the computer terminates and then displays the syntax error message “function has already been declared.”
3. Tokens must be checked for list of parameters
   1. The first token must be a opening parentheses

**Priority:**

**When available:**

**Frequency of use:**

**Channel to actor:**

**Secondary actors:**

**Channels to secondary actors:**

**Open issues:**

1.