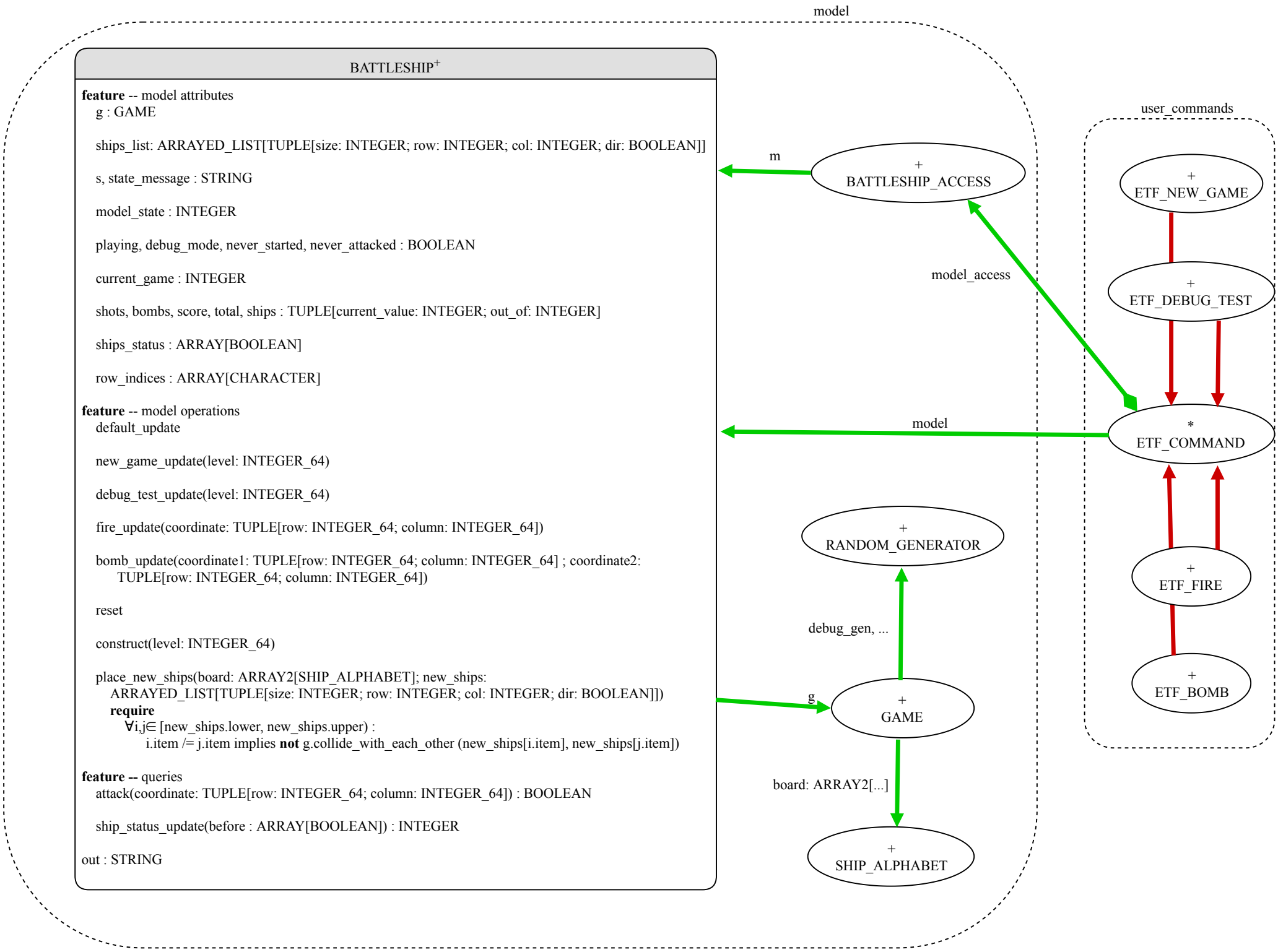
model
BATTLESHIP+
feature -- model attributes
g : GAME
ships_list: ARRAYED_LIST[TUPLE[size: INTEGER; row: INTEGER; col: INTEGER; dir: BOOLEAN]]
s, state_message : STRING
model_state : INTEGER
playing, debug_mode, never_started, never_attacked : BOOLEAN
current_game : INTEGER
shots, bombs, score, total, ships : TUPLE[current_value: INTEGER; out_of: INTEGER]
ships_status : ARRAY[BOOLEAN]
row_indices : ARRAY[CHARACTER]
feature -- model operations
default_update
new_game_update(level: INTEGER_64)
debug_test_update(level: INTEGER_64)
fire_update(coordinate: TUPLE[row: INTEGER_64; column: INTEGER_64])
bomb_update(coordinate1: TUPLE[row: INTEGER_64; column: INTEGER_64] ; coordinate2: TUPLE[row: INTEGER_64; column: INTEGER_64])
reset
construct(level: INTEGER_64)
place_new_ships(board: ARRAY2[SHIP_ALPHABET]; new_ships: ARRAYED_LIST[TUPLE[size: INTEGER; row: INTEGER; col: INTEGER; dir: BOOLEAN]])
require
∀i,j∈ [new_ships.lower, new_ships.upper) :
i.item /= j.item implies not g.collide_with_each_other (new_ships[i.item], new_ships[j.item])
feature -- queries
attack(coordinate: TUPLE[row: INTEGER_64; column: INTEGER_64]) : BOOLEAN
ship_status_update(before : ARRAY[BOOLEAN]) : INTEGER
out : STRING
m
+
BATTLESHIP_ACCESS
model_access
user_commands
+
ETF_NEW_GAME
+
ETF_DEBUG_TEST
model
*
ETF_COMMAND
+
RANDOM_GENERATOR
+
ETF_FIRE
debug_gen, ...
+
ETF_BOMB
g
+
GAME
board: ARRAY2[...]
+
SHIP_ALPHABET