S' -> STMT

STMT -> IF\_STMT

STMT -> BLOCK

STMT -> ASSIGN

STMT -> DECLARE

STMT -> WHILE\_LOOP

STMT\_LIST -> STMT ;

STMT\_LIST -> STMT ; STMT\_LIST

WHILE\_LOOP -> `while` ( BOOL\_EXPR == 1 ) BLOCK

IF\_STMT -> `if` ( BOOL\_EXPR == 1 ) BLOCK [ `else` BLOCK ]

BLOCK -> `{` STMT\_LIST `}`

DECLARE -> 'Datatype' id { , id }

ASSIGN -> id = EXPR

EXPR -> TERM

EXPR -> TERM + EXPR

EXPR -> TERM - EXPR

TERM -> FACT \* TERM

TERM -> FACT / TERM

TERM -> FACT % TERM

TERM -> FACT

FACT -> id

FACT -> INT

FACT -> FLOAT

FACT -> EXPR

BOOL\_EXPR -> BTERM

BOOL\_EXPR -> BTERM > BOOL\_EXPR

BOOL\_EXPR -> BTERM < BOOL\_EXPR

BOOL\_EXPR -> BTERM >= BOOL\_EXPR

BOOL\_EXPR -> BTERM <= BOOL\_EXPR

BTERM -> BAND

BTERM -> BAND == BTERM

BTERM -> BAND ^= BTERM

BAND -> BOR

BAND -> BOR && BAND

BOR -> EXPR

BOR -> EXPR || BOR

INT -> {[ 0- 9]}

FLOAT -> ({[0 - 9]} (.) {[0 - 9]})

Graphical user interface, application

Description automatically generated