1 Syntax

The minimal syntax, may extend someday.

```
letter
            ::=
                 a..z | A..Z
                 letter {letter}
ident
            ::=
term
                 forall binder {binder}, term
                 fun \{binder\} => term
                 fix fix_body
                 let ident \{binder\} : term := term in term
                 term \rightarrow term
                 term arg {arg}
                 match term with
                     { | equation}
                 end
                 sort
                 (term)
            ::=
                 term
arg
binder
                 name: term
            ::=
name
            ::=
             ident
                 Prop | Set | Type
sort
            ::=
fix_body
                 ident \{binder\} : term := term
            ::=
                 pattern = > term
equation
            ::=
pattern
                 ident {name}
            ::=
sentence
                 axiom
                 definition
                 inductive
                 fixpoint
                 assertion proof
axiom
                 Axiom ident: term.
definition
            ::=
                 Definition ident \{binder\} : term := term.
inductive
                 Inductive ident {binder}: term :=
            ::=
                    { | ident {binder} : term} .
                 Theorem ident {binder}: term.
assertion
            ::=
proof
            ::=
                 Proof . {tactic .} Qed .
```

tacticapplying ::= $context_managing$ case_analyzing rewriting computing equality ::=applying exact termapply term [in ident] intro [ident] context_managing ::=intros ${\rm destruct}\ term$::=case_analyzing induction termrewrite $\lceil <- \mid -> \rceil$ term \lceil in term \rceil rewriting ::=computing simpl::=equality reflexivity ::=symmetry helper printing ::=proof_handling Print ident . printing ::=Check term. proof_handling Undo . ::=

> Restart . Admitted . Abort .

2 Type System