# EasyPet

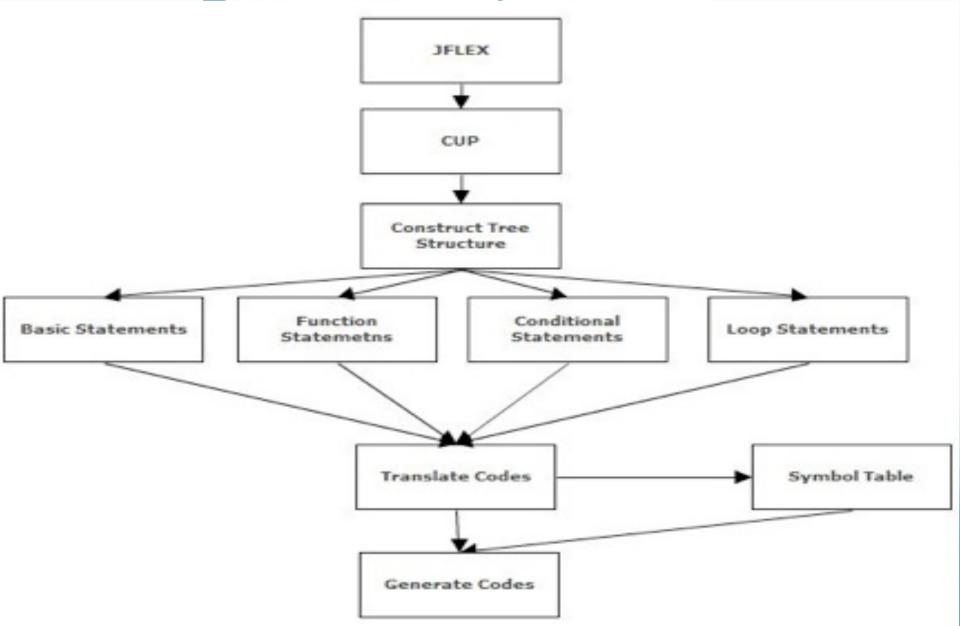
PLT Team 13

Bo Liu Liang Wei Weikang Wan Xiaolong Jiang

### Introduction

- What is EasyPet?
- EasyPet : a programming language used to create electronic pet
- Why EasyPet?
- Fast developing
- Easy to use and understand

### Design and Implementation



### Language Feature

#### EasyPet Language elements

#### **Data Types:**

- int ,string,double, arraylist
- Item, Pet, Panel

#### **Function Types:**

- Button function: def\_btn
- > Timer function: def\_timer
- Basic function: def

## Sample Program

```
Program sample {
Pet Dog {
         int age = 1;
         double height = 20.0;
 Panel DogPanel{
         Dog dog;
 def_btn void test(){
         dog.age = dog.age + 1;
 def_timer void test(){
         dog.height = dog.height +0.5;
```

### Translator

- Our translators can be divided into three kinds:
- 1. The first kind of translator is used to translate basic blocks
- 2. The second kind of translator is used to translate def\_timer function
- 3. The third kind of translator is used to translate def\_btn function
- They are divided into three kinds because we will translate them into very different blocks

### Back-end

- GUI design
- Java Swing

## Testing

- Unit Testing
- testPet.ep
- testPanel.ep
- testDef.ep
- testDefTimer.ep
- testOperator.ep .....

## Testing

- Integrated Testing
- testPanelCallPet.ep
- testDefTimerCallDef.ep
- testSimplePet.ep
- •

### Challenge

- Problems we met when developing
- Ambiguous grammar
- Button function

## Summary

- Language Improvement
- Stable
- GUI
- Lessons we leant
- Teamwork
- Communication

# Thank you!