# Formlang++ with Lex and Yacc

By Madara Weerasinghe

#### Demo link:

Youtube link: <a href="https://youtu.be/Qg33tMb1N4s">https://youtu.be/Qg33tMb1N4s</a>

## Example 01

### Input:

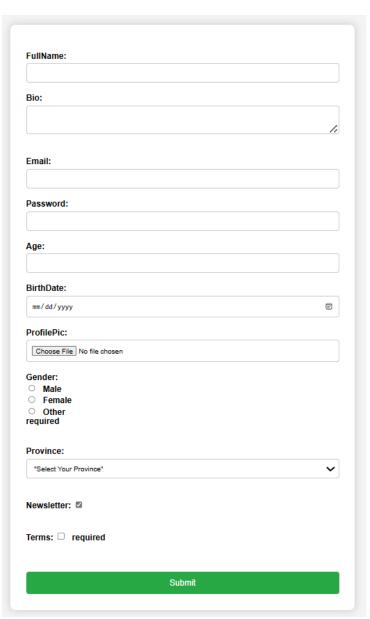
```
form Registration {
    meta author = "$z2062 Team";
    section PersonalDetails {
        field fullName: text required = true pattern = "^[A-Z][a-Z]+$";
        field fullName: text required = true pattern = "^[A-Z][a-Z]+$";
        field famil: email required = true;
        field famil: email required = true pattern="^(?=.*[a-Z])(?=.*[A-Z])(?=.*[N_]).{6,}$";
        field famil: email required = true min = 18 max = 99;
        field Mage: number required = true min = 18 max = 99;
        field Brithbate: date required = true min = "126-61-01" max = "2007-12-31";
        field ProfilePic: file accept = "image/" required = true;
        field Province: adio options = ["Nale", "Female", "Other"] required = true;
        field Gender: radio options = ["Nale", "Female", "Other"] required = true;
        field Newsletter: checkbox default-true;
    }
}

section Agreement {
        field Terms: checkbox required = true;
}

validate {
        if Age < 18 {
            error "You must be at least 18.";
        }

if FullName == "" {
        error "Full name cannot be empty.";
        }
}
</pre>
```

## **Output:**



### Example 02

#### Input:

```
form Jobapplicantinfo {
    meta author = "SEABEZ Team";

section Applicantinfo {
    field FirstName: text required = true pattern = "^[A-Z][a-Z]+$";
    field LastName: text required = true pattern = "^[A-Z][a-Z]+$";
    field LastName: text required = true pattern = "^[A-Z][a-Z]+$";
    field DateOffirth: date required = true min = "1960-01-01" max = "2007-01-01";
    field Ape: number required = true min = "1960-01-01" max = "2007-01-01";
    field Ape: number required = true min = "1960-01-01" max = "2007-01-01";
    field Resume: file accept = ".pdf" required = true;
    field Resume: file accept = ".pdf" required = true;
    field Position: dropdom ortions = ["Software Engineer", "QA Engineer", "Product Manager", "Designer"] required = true;
    field Position: dropdom ortions = ["Colembo", "Kandy", "Galle", "Remote"];
    field willingToNellocate: checkbook default = false;
}

section AdditionalInfo {
    field Bio: textarea rows = S cols = 50;
        field Bio: textarea rows = S cols = 50;
        field Bio: textarea rows = S cols = 50;
        field ApretoTerms: checkbook required = true;
}

section Consent {
    field AgreeToTerms: checkbook required = true;
}

validate {
    if agg < 18 {
        error "Applicants must be 18 or older.";
    }

if LastName == "" {
    error "First name is required.";
}

if Resume == "" {
    error "Resume must be uploaded.";
}
}
</pre>
```

### **Output:**

