

```
package pattern1;
public interface ImplementMe {
    public void update();
}
```

```
package pattern1;
public class rssFeed extends SuperClass {
```

```
    public rssFeed() {
        super();
    }
```

```
    public void add(ImplementMe me) {
        this.superList.add(me);
    }
```

```
    public void remove(ImplementMe me) {
        this.superList.remove(me);
    }
```

```
    public void notice() {
        for (ImplementMe me : this.superList) {
```

```
        }
    }
}
```

```
package pattern1;
public class rssReader implements Imp
```

```
    public void update() {
        // TODO Auto-generated method stub
    }
}
```

```
package pattern1;
import java.util.ArrayList;
```

```
public abstract class SuperClass {
```

```
    protected ArrayList<ImplementMe> superList;
```

```
    public abstract void add(ImplementMe me);
    public abstract void remove(ImplementMe me);
    public abstract void notice();
```

```
}
```

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```

package psttern2;
public class Book implements BookInterface {
    private String title;
    private String author;
    private String publicationDate;
    private int ISBN;
    private int pages;
    private String summary;

    public Book(String title, String author, String publicationDate,
int iISBN, int pages, String summary) {
        super();
        this.title = title;
        this.author = author;
        this.publicationDate = publicationDate;
        ISBN = iISBN;
        this.pages = pages;
        this.summary = summary;
    }
    public String getTitle() {
        return title;
    }
    public
        th
    }
    public String getAuthor() {
        return author;
    }
    public void setAuthor(String aut
        this.author = author;
    }
    public String getPublicationDate() {
        return publicationDate;
    }
    public void setPublicationDate(String publicationDate) {
        this.publicationDate = publicationDate;
    }
    public int getISBN() {
        return ISBN;
    }
    public void setISBN(int iISBN) {
        ISBN = iISBN;
    }
    public int getPages() {
        return pages;
    }
    public void setPages(int pages) {
        this.pages = pages;
    }
}

```

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```
}  
public String getSummary() {  
    return summary;  
}  
public void setSummary(String summary) {  
    this.summary = summary;  
}  
}  
  
package psttern2;  
  
public interface BookInterface {  
  
    public String getTitle();  
    public String getAuthor();  
    public String getPublicationDate();  
    public int getISBN();  
    public int getPages();  
    public String getSummary();  
}
```

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```

package pattern3;
public class Magazine {
    private String title;
    private String editor;
    private String publicationDate;
    private int ISBN;
    private int pages;
    private String summary;

    public Magazine(String title, String editor, String
publicationDate,int iISBN, int pages, String summary) {
        super();
        this.title = title;
        this.editor = editor;
        this.publicationDate = publicationDate;
        ISBN = iISBN;
        this.pages = pages;
        this.summary = summary;
    }

    public String getTitle() {
        return title;
    }

    public
        return new Magazine(title,
this.editor,this.publicationDate, this
this.summary);

    public String getEditor() {
        return editor;
    }

    public Magazine setEditor(String editor) {
        return new Magazine(this.title,
editor,this.publicationDate, this.ISBN, this.pages, this.summary);
    }

    public String getPublicationDate() {
        return publicationDate;
    }

    public Magazine setPublicationDate(String publicationDate) {
        return new Magazine(this.title,
this.editor,publicationDate, this.ISBN, this.pages, this.summary);
    }
}

```

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```

    public int getISBN() {
        return ISBN;
    }

    public Magazine setISBN(int iISBN) {
        return new Magazine(this.title,
            this.editor, this.publicationDate, ISBN, this.pages, this.summary);
    }

    public int getPages() {
        return pages;
    }

    public Magazine setPages(int pages) {
        return new Magazine(this.title,
            this.editor, this.publicationDate, this.ISBN, pages, this.summary);
    }

    public String getSummary() {
        return summary;
    }

    public Magazine setSummary(String summary) {
        return new Magazine(this.title,
            this.editor, this.publicationDate, this.ISBN, this.pages, summary);
    }
}

```

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```

package pattern4;
public interface Journal {

    public String getTitle();
    public void setTitle(String title);

    public String getEditor();
    public void setEditor(String editor);

    public String getPublicationDate();
    public void setPublicationDate(String publicationDate);

    public int getISBN();
    public void setISBN(int ISBN);

    public int getPages();
    public void setPages(int pages);

    public String getSummmary();
    public void setSummary(String summary);
}

```

```

package patte
public class

```

```

private String title;
private String editor;
private String publicationDate;
private int ISBN;
private int pages;
private String summary;
boolean fetched = false;

```

```

public JournalOne() {

}

```

```

protected void FetchJournal() {
    // Do something to get a Journal's Details
}

```

```

public String getTitle() {
    if (!this.fetched) {
        this.FetchJournal();
    }
    return this.title;
}

```

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```

}

public void setTitle(String title) {
    if (! this.fetched) {
        this.FetchJournal();
    }

    this.title = title;
}

// ETC for remaining methods

public String getEditor() {
    // TODO Auto-generated method stub
    return null;
}

public void setEditor(String editor) {
    // TODO Auto-generated method stub
}

public
    // re
}

public void setPublicationDate(String date) {
    // TODO Auto-generated meth
}

public int getISBN() {
    // TODO Auto-generated method stub
    return 0;
}

public void setISBN(int isbn) {
    // TODO Auto-generated method stub
}

public int getPages() {
    // TODO Auto-generated method stub
    return 0;
}

public void setPages(int pages) {

```

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```

        // TODO Auto-generated method stub

    }

    public String getSummary() {
        // TODO Auto-generated method stub
        return null;
    }

    public void setSummary(String summary) {
        // TODO Auto-generated method stub

    }

}

package pattern4;

public class JournalTwo implements Journal {
    public String getTitle() {
        //
    }

    public void setTitle(String title) {
        // Set title from Journal se.
    }

    public String getEditor() {
        // Get editor from Journal stored in a database.
        return null;
    }

    public void setEditor(String editor) {
        // Set editor from Journal stored in a database.

    }

    // ETC for remaining getters/settings
    public String getPublicationDate() {
        // TODO Auto-generated method stub
        return null;
    }

    @Override
    public void setPublicationDate(String publicationDate) {

```

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```

        // TODO Auto-generated method stub

    }
    @Override
    public int getISBN() {
        // TODO Auto-generated method stub
        return 0;
    }
    @Override
    public void setISBN(int ISBN) {
        // TODO Auto-generated method stub

    }
    @Override
    public int getPages() {
        // TODO Auto-generated method stub
        return 0;
    }
    @Override
    public void setPages(int pages) {
        // TODO Auto-generated method stub

    }
    @Override
    public
        // TODO Auto-generated meth
        return null;
    }
    @Override
    public void setSummary(String summary) {
        // TODO Auto-generated method stub

    }

}
}

```

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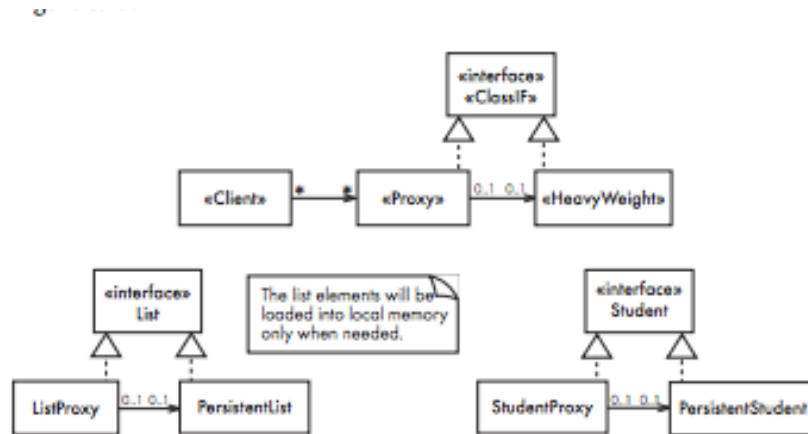


Figure 6.13 Template and examples of the Proxy design pattern

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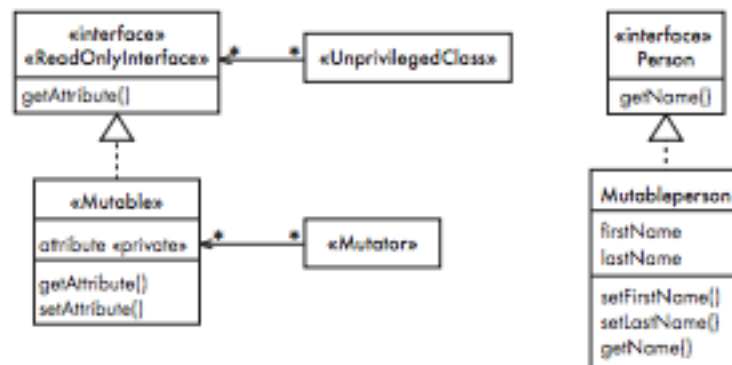
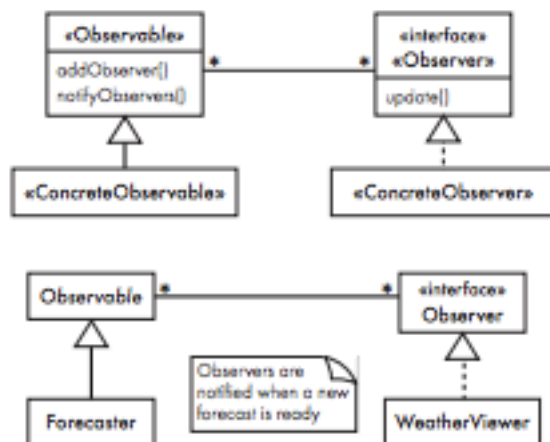


Figure 6.12 Template and example of the Read-Only Interface design pattern

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Template and example of the Observer design pattern

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Immutable Pattern (no graphical representation)

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