

```

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) {
            me.update();
        }
    }
}

```

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```

package pattern1;
public class rssReader implements ImplementMe {

    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();
}

```

```

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 void setTitle(String title) {
        this.title = title;
    }
    public String getAuthor() {
        return author;
    }
    public void setAuthor(String author) {
        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 Magazine setTitle(String title) {
        return new Magazine(title,
this.editor,this.publicationDate, this.ISBN, this.pages,
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 pattern4;
public class JournalOne implements Journal {

```

```

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

public void setPublicationDate(String publicationDate) {
    // TODO Auto-generated method stub
}

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() {
        // Get a title from Journal stored in a database.
        return null;
    }

    public void setTitle(String title) {
        // Set title from Journal stored in a database.
    }

    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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```

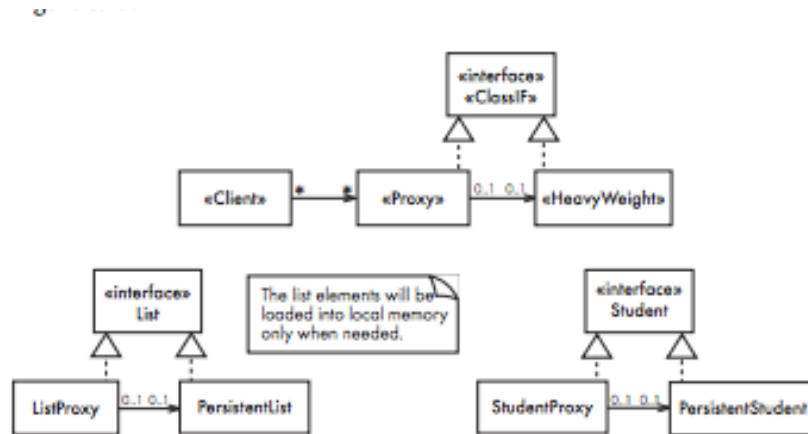
        // TODO Auto-generated method stub
    }
    @Override
    public int getISBN() {
        // TODO Auto-generated method stub
        return 0;
    }
    @Override
    public void setISBN(int ISBN) {
        // TODO Auto-generated method stub
    }
    @Override
    public int getPages() {
        // TODO Auto-generated method stub
        return 0;
    }
    @Override
    public void setPages(int pages) {
        // TODO Auto-generated method stub
    }
    @Override
    public String getSummary() {
        // TODO Auto-generated method stub
        return null;
    }
    @Override
    public void setSummary(String summary) {
        // TODO Auto-generated method stub
    }
}
}

```

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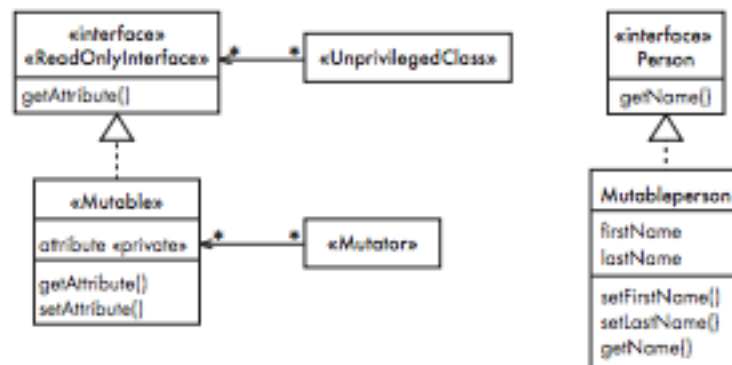


**Figure 6.13** Template and examples of the Proxy design pattern

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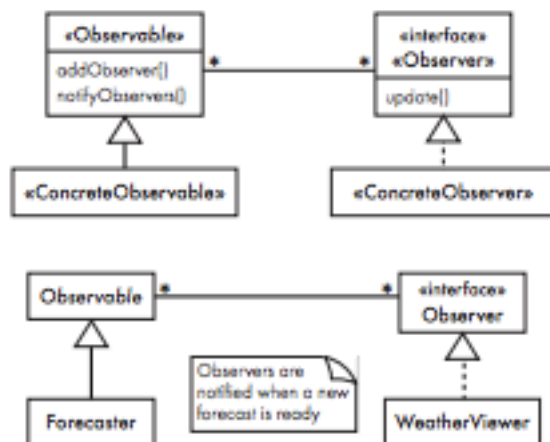


**Figure 6.12** Template and example of the Read-Only Interface design pattern

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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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