Word Concordance for The Mahabharata

Pratheek K A, Rahul V, Ravikiran S

IIIT,Bangalore

March 15, 2012

Outline
Introduction
Brief Description of Project
Work Completed
Architecture Methodology Explanation
Individual Contribution
Work planned till next Deliverable
References

Introduction

Brief Description of Project

Work Completed

Architecture Methodology Explanation

Individual Contribution

Work planned till next Deliverable

References

Introduction

- To generate a word concordance for the Mahabharata using a standard Sanskrit reference dictionary like Apte's.
- To display the output in a text file specifying the word and the reference in The Mahabharata.

Brief Description of Project

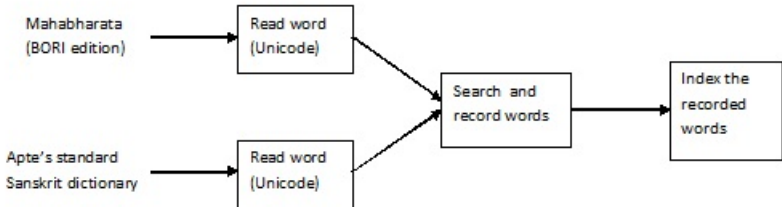- ▶ Search for every word in dictionary with its corresponding occurence in Mahabharata.

Brief Description of Project

- Search for every word in dictionary with its corresponding occurence in Mahabharata.
- Store the searched word and its occurence as an ordered pair < word, occurence >
- Print the output into a file.

Work completed till today

- Surveyed extensively, the various morphological problems that affect effective parsing of Sanskrit Text, expecially the problem of *sandhi vicheda*.

- Studied papers towards building a morphological analyser.

- Different algorithms used in Sanskrit concordance generation and their feasibility.

- Elementary parsing of Sanskrit text, i.e. ability to read Sanskrit text in problem along with displaying its Unicode number for further insight into representation of Sanskrit in Unicode.

Architecture Methodology Explanation (Technical)

Architecture Methodology Explanation (Technical)

- We have used the V-model for software development.
- We are currently in the implementation stage of the model.
- We are currently working on the actual searching technique.(code).

Individual Contribution

Task	Member
Studying the Sandhi Vichedha Problem	Rahul V
Working on algorithm for concordance building	Pratheek K A
Working on Unicode representation of Sanskrit	Ravikiran S

To-do till next deliverable.

- Code the current algorithm.
- Perfom some basic forms of testing.
- Complete the user manual/guide.

Outline
Introduction
Brief Description of Project
Work Completed
Architecture Methodology Explanation
Individual Contribution
Work planned till next Deliverable
References

References I

📕 Abhinandan S and Prof.Shrisha Rao.
Citation Matching in Sanskrit corpus.
Sanskrit Computational Linguistics, International Symposium,
2(1):50–100, 2010.

📕 The standard Unicode Document on Devanagiri script.

📕 The South Asian language resource center

Thank You